

AD-784 121

WIND TUNNEL TEST RESULTS FOR THE  
DIRECTION CONTROLLED ANTITANK (DCAT)  
MISSILE AT MACH NUMBERS FROM 0.64 TO  
2.50

T. A. Martin, et al

Chrysler Corporation

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)  Wind tunnel test results are presented to show aerodynamic characteristics over the Mach number range of 0.64 to 2.50 of the DCAT missile. Data are presented showing the interference created by the rear mounted reaction control system. Two candidate fins were installed on the model during tests: a flat folding fin and a curved wrap around fin.		

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PLOTTED COEFFICIENTS SCHEDULE: (A): CN, CLM vs. ALPHA; CN vs. CLM; CY vs. ALPHA

## INTRODUCTION

The Direction Controlled Anti-Tank Missile (DCAT) is a shoulder fired weapon with a rear located jet reaction control system. The control system utilizes four bi-stable fluidic valves powered by a portion of the exhaust gases during the post eject, boost phase of the missile's flight. Two candidate fins are proposed to afford tube launch capability, a flat folding fin ( $F_4$ ) and a curved wrap around fin ( $F_5$ ). The model was tested with the control system operated at two conditions; at design level (supply pressure to ambient pressure ratio = 86) and an over pressure level (pressure ratio = 130).

Tests were conducted at the NASA-Ames facility in the 14 Foot Transonic and the  $\times$  7 Foot Supersonic Tunnels. Test Mach number range was from  $M = 0.64$  to 1.5 and the model was tested over the angle-of-attack range  $\pm 4$  degrees.

## MODEL DESCRIPTION

### External Geometry:

A 1.5 percent scale model of the DCAT was used during the tests. Photographs of the model are shown in figures 4 and 5. Details of the external geometry are given in figure 2. Cut outs shown in the fins are intended to accommodate the mechanism used to extend the fins after launch. Both fins (fold down fin, F<sub>4</sub> & wrap around fin, F<sub>5</sub>) were tested with simulated "pop up" springs installed in these cut outs. The trailing edge of each fin extended one-half inch beyond the model base when installed. The launch tube bore riders shown attached to F<sub>4</sub> are in practice installed on the missile surface, but for ease of fabrication were mounted on this fin. Fin F<sub>5</sub> was not tested with the bore rider installed. The fin retaining band is utilized to provide structural support to the forward fin mounting pads and was tested installed with F<sub>4</sub> only. The four conduits located 90° apart and oriented between the fins simulated wiring tunnels on the missile used to route electrical leads from the gyro guidance package forward of the motor to the fluidic control package near the missile base. These conduits were installed on all configurations tested.

### Fluidic Valves:

The four single stage jet reaction control valves were located in the model with the exhaust ports located as shown in figure 2. These valves are flight hardware valves modified to fit the oversize model and to accept commands from a remote device rather than a gyro package. Each

valve is a bi-stable fluidic device which may be switched by closing the appropriate control port. Switching of these valves is controlled at 60 cycles per sec. Control is produced by biasing the flow in the desired direction during a portion of each cycle. Cold air was supplied to the valves during testing to simulate the hot gasses employed during flight.

It was necessary to adjust the operating concept of the control system in the wind tunnel to afford matching flight conditions. In flight, the hot gas is supplied to the valves at 1250 psi (86 times ambient air pressure). In the reduced atmosphere, both the supply pressure level and pressure ratio could not be maintained. The parameter selected to be matched was pressure ratio. Maintaining this ratio allowed duplicating the external flow characteristics developed due to the interaction between the control jet flow and the free stream. However, the flight thrust of the valves was not duplicated at the reduced pressure level. A determination of the "scaled" thrust was made by calibrating the model with the tunnel evacuated to test pressures but with no free stream flow. This information is presented in figure 3.

#### CONFIGURATIONS INVESTIGATED

A summary of the configurations and conditions investigated is given in table I. Configuration B<sub>2</sub>F<sub>4</sub>C is the configuration of primary interest and testing of B<sub>2</sub>F<sub>5</sub>C and off-design control pressurization ( $P_{O_j}/P_F = 130$ ) was accomplished only to the extent of test time available. Extensive

testing was done to determine if operating the control system in a plane interferred with control system operation in the opposite plane. Testing of the control system-on condition was not done at Mach numbers 2.20 and 2.50 since no effect of the control system was found as this range was approached.

#### TEST FACILITY DESCRIPTION

The 9-by-7 Foot Supersonic Tunnel is a component of the Ames Unitary Plan Wind Tunnel. This test facility is a closed-loop, continuous flow, variable-density tunnel. The Mach number range of the 9-by-7 leg of this tunnel is from 1.4 to 2.6. The test was conducted under the Mach numbers from 1.55 to 2.50 at stagnation pressures of 16 to 22 psia.

The 14 Foot Transonic Tunnel is a closed-loop, continuous flow with a constant stagnation pressure (14.7 psi). Mach number range of this facility is from 0.6 to 1.0. Testing was conducted from 0.64 to 1.10 Mach number.

## DATA REDUCTION

Forces and moments were reduced to non-dimensional coefficient form in the missile axis system. Reference dimensions used in the reduction are:

$$S_{ref} = .11 \text{ sq. ft.}$$

$$l_{ref} = .375 \text{ ft.}$$

$$B_{ref} = .375 \text{ ft.}$$

$$XMRP = 0.0$$

$$YMRP = 0.0$$

$$ZMRP = 0.0$$

The data accuracy is considered to be reflected by the repeatability of the data in the pitch plane ( $C_N$  &  $C_m$ ). The measurement in the yaw plane ( $C_y$ ) was strongly influenced by the dynamic response of the sting-balance-model. Therefore, this data usefulness is limited to determining levels and trends.

NOMENCLATURE  
General

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
$c$		speed of sound; m/sec, ft/sec
$C_p$	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; $V/c$
P		pressure; N/m <sup>2</sup> , psf
q	Q(NOM) Q(PSF)	dynamic pressure; $1/2 \rho V^2$ , N/m <sup>2</sup> , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
$\alpha$	ALPHA	angle of attack, degrees
$\beta$	BETA	angle of sideslip, degrees
$\psi$	PSI	angle of yaw, degrees
$\phi$	PHI	angle of roll, degrees
$\rho$		mass density; kg/m <sup>3</sup> , slugs/ft <sup>3</sup>

Reference & C.G. Definitions

A <sub>b</sub>		base area; m <sup>2</sup> , ft <sup>2</sup>
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
$\bar{c}_{REF}$	LREF	reference length or wing mean aerodynamic chord; m, ft
C	SREF	wing area or reference area; m <sup>2</sup> , ft <sup>2</sup>
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
$\infty$	free stream

NOMENCLATURE  
(Continued)

Body-Axis System

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
$C_N$	$C_N$	normal-force coefficient; $\frac{\text{normal force}}{qS}$
$C_A$	$C_A$	axial-force coefficient; $\frac{\text{axial force}}{qS}$
$C_Y$	$C_Y$	side-force coefficient; $\frac{\text{side force}}{qS}$
$C_{A_b}$	$C_{A_b}$	base-force coefficient; $\frac{\text{base force}}{qS}$ $A_b(p_b - p_\infty)/qS$
$C_{A_f}$	$C_{A_f}$	forebody axial force coefficient; $C_A = C_{A_b}$
$C_m$	$C_{LM}$	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
$C_n$	$C_{YN}$	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
$C_l$	$C_{BL}$	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$

ADDITIONS TO NOMENCLATURE

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
$P_F$		free stream static pressure, psia.
$P_{O_j}$		control system supply pressure, psia.
$P_{O_j}/P_F$	POJ/PF	ratio of control system pressure to free stream pressure.
$P_{MOD}$	P-MOD	control system modulation in pitch plane.
$\gamma_{MOD}$	Y-MOD	control system modulation in yaw plane.
$B_2$	B2	body
C		conduits spaced 90° apart
MOD		modulation, a positive modulation is a force that causes a positive moment; a modulated force is a portion of the total reactive force acting in a selected direction, for a 60% modulation flow is biased in the desired direction for 80% of a cycle and for 20% of the cycle the flow is directed in the opposite direction yielding a net force in the desired direction for 60% of the cycle.
CPB		base pressure coefficient.

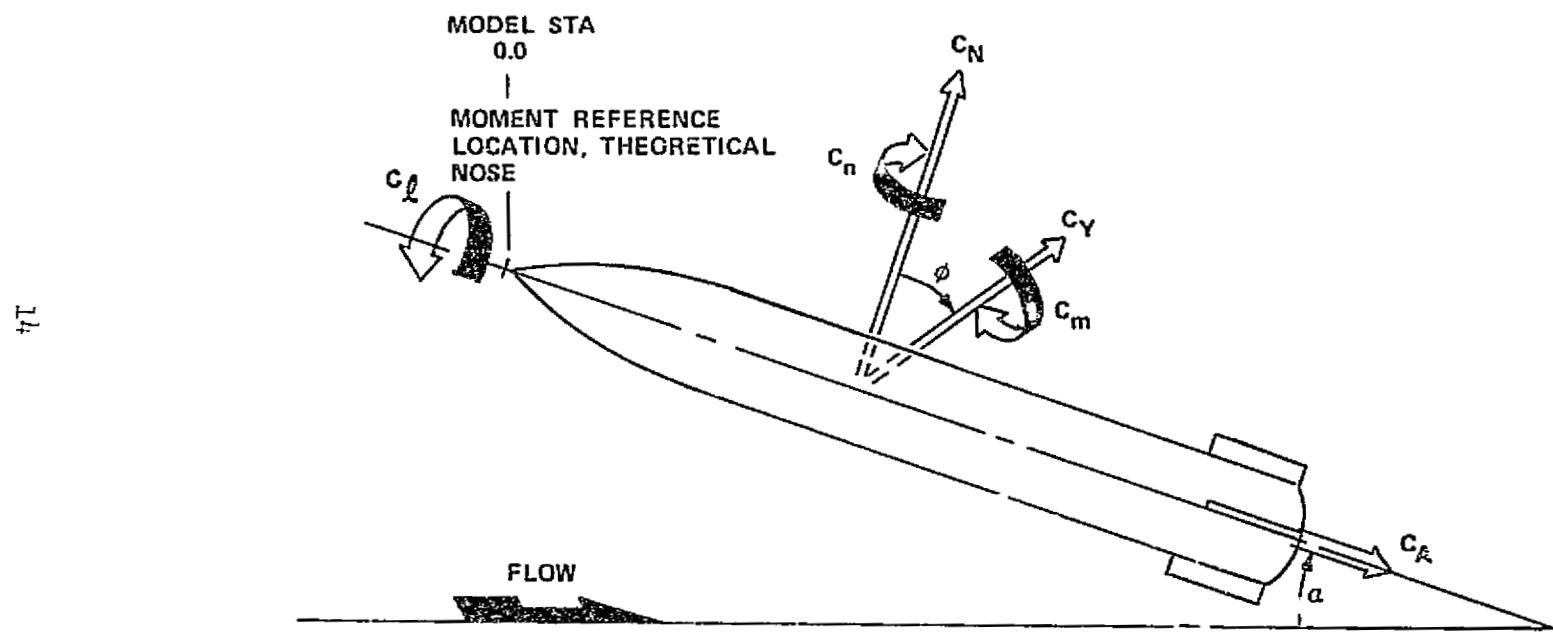
TABLE I.

TEST: DCAT		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE:					
DATA SET IDENTIFIER	CONFIGURATION	SCHD.	PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)								TEST RUN NUMBER			
			$\alpha$	$\beta$		$R_1/P_0$	$P_{in}/P_0$	$T_{out}/T_0$	.63	.80	.95	1.00	1.10	1.55			
RX1001	B2F4 C	A	0	-	-	-	-	-	1	63	33	74	73	87	112	135	138
02		T	T	86	C	0			2	55	34	75	40	88	113	136	139
03									3	56	35	76	41	89	114		
04									4	57	36	77	42	94	115		
05									5	58	37	78	43	91	116		
06									6	59	38	79	44	95	118		
07									7	60	39	80	45	96	119		
08									8	61	47	81	46	97	120		
09									9	62	48	82	47	98	121		
10									10	64	49	83	71	99	122		
11									11	65	50	84	72	100	123		
12									12	65	50	84	72	100	123		
13									13	92	51	85	66	102	125		
14									14	93	52	86	67	103	126		
15									15	94	53	87	68	104	127		
16									16	95	54	88	69	105	128		
17									17	60	19	96	101	124			
18									18	100	18	91	106	129			
1																	
7																	
13																	
19																	
25																	
31																	
37																	
43																	
49																	
55																	
61																	
67																	
75																	
76																	
CMI, IGY, ICBL, IGYN, ICLM, ICAR, ICAB, ICA, ICPRB, IDVAR(1), IDVAR(2), NOV														0.1			
$\alpha$ OR $\beta$ SCHEDULES		$A' \alpha : -4^\circ \rightarrow +4^\circ$ COEFFICIENTS															

TABLE I. Concluded.

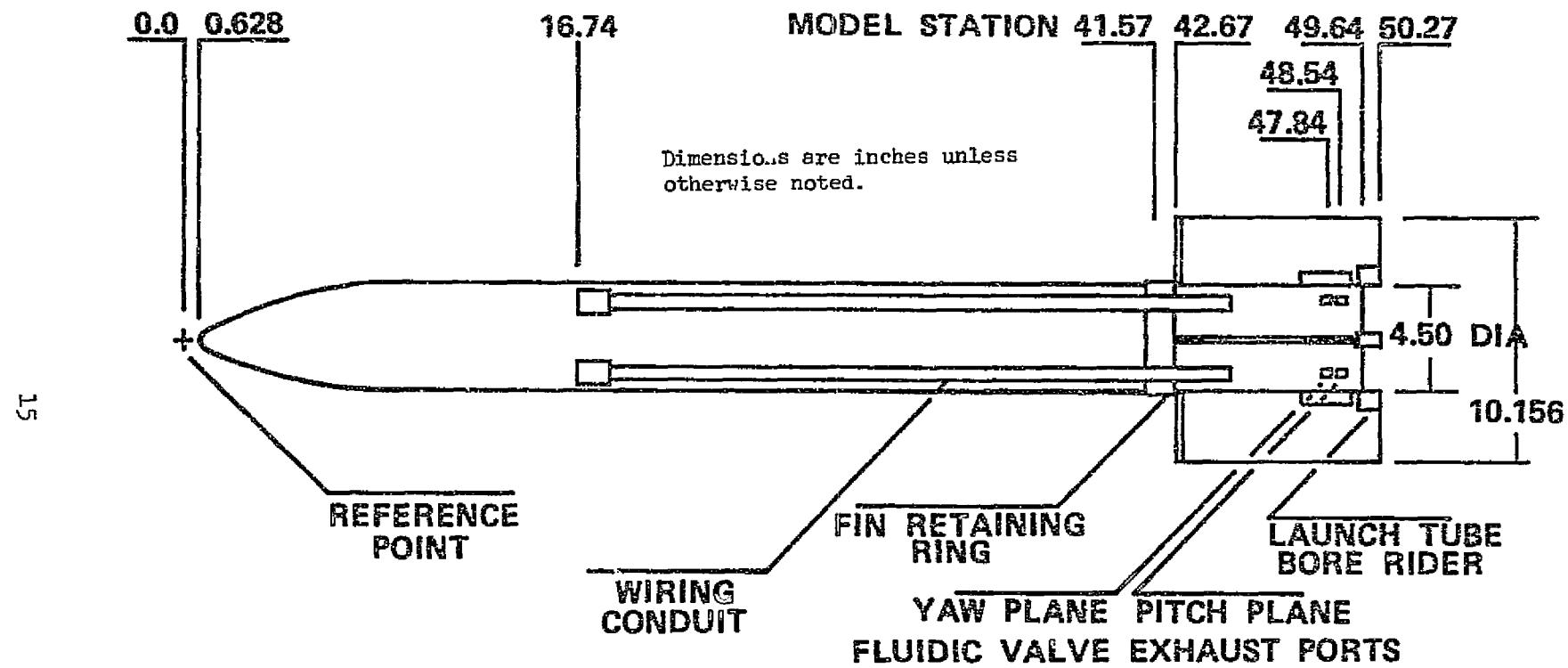
TEST No. 14-603

TEST N. 99-604-1



NOTE: ARROWS INDICATE POSITIVE DIRECTION  
OF ANGLES, FORCES, AND MOMENTS  
FORCES AND MOMENTS WILL BE REDUCED  
TO BODY AXES COEFFICIENTS

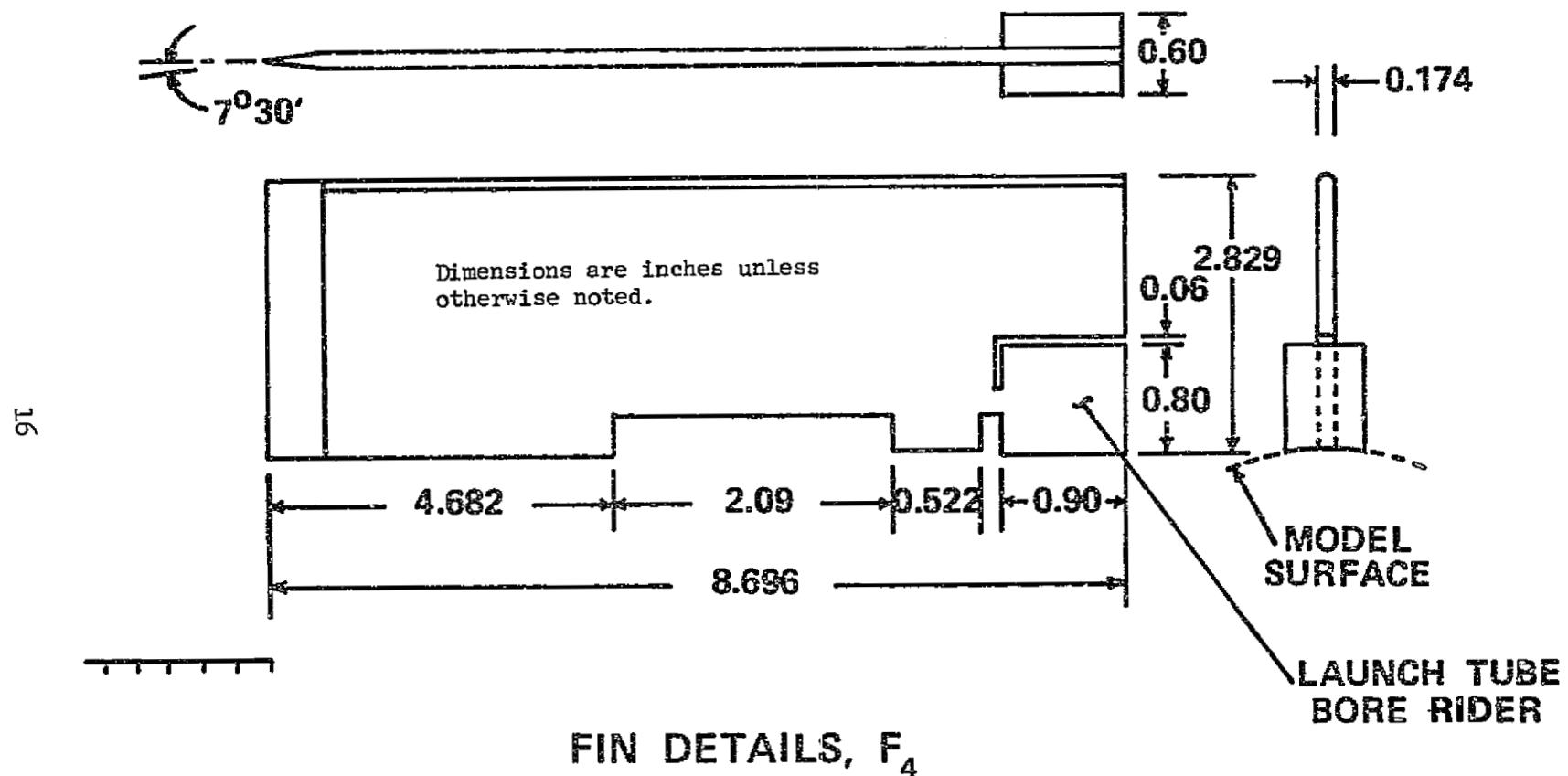
Figure 1. - Axis Systems.



a. Model Geometry (B<sub>2</sub>F<sub>4</sub>C)

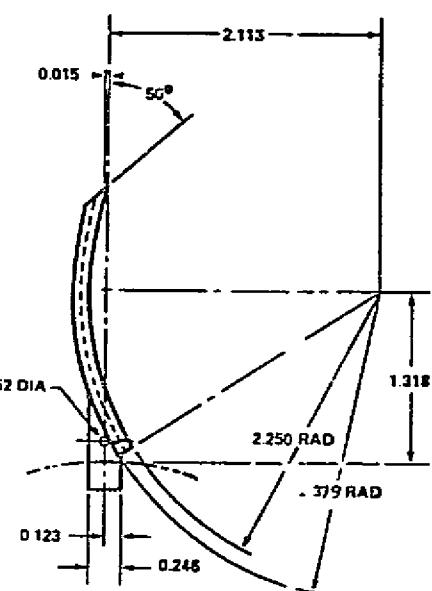
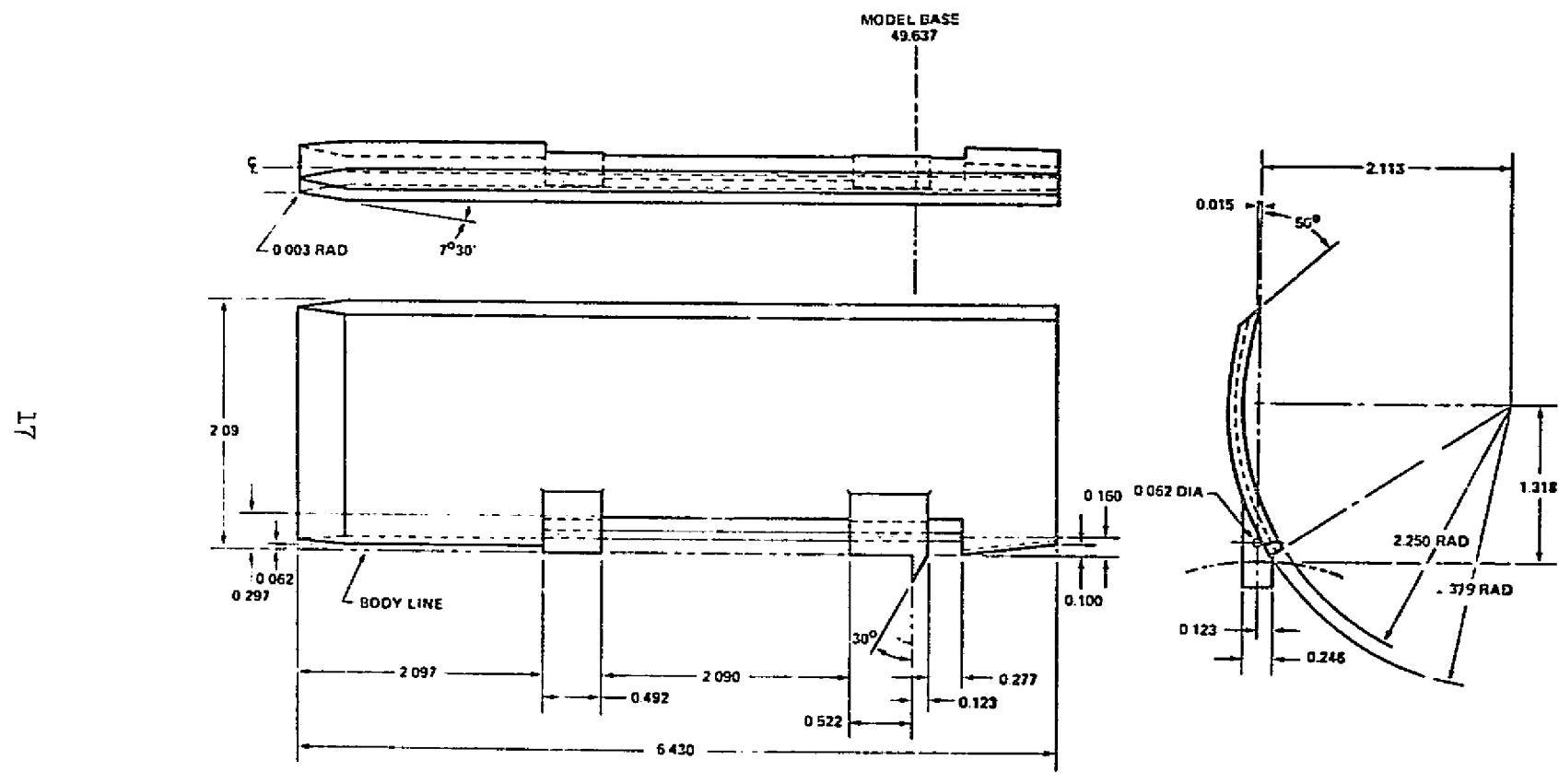
Figure 2. - Model Details.

**FIN CANT ANGLE TO PRODUCE CLOCKWISE ROLL,  $0.15^\circ$  (NOT SHOWN)**



b. Fin Details, F<sub>4</sub>

Figure 2. - Continued.

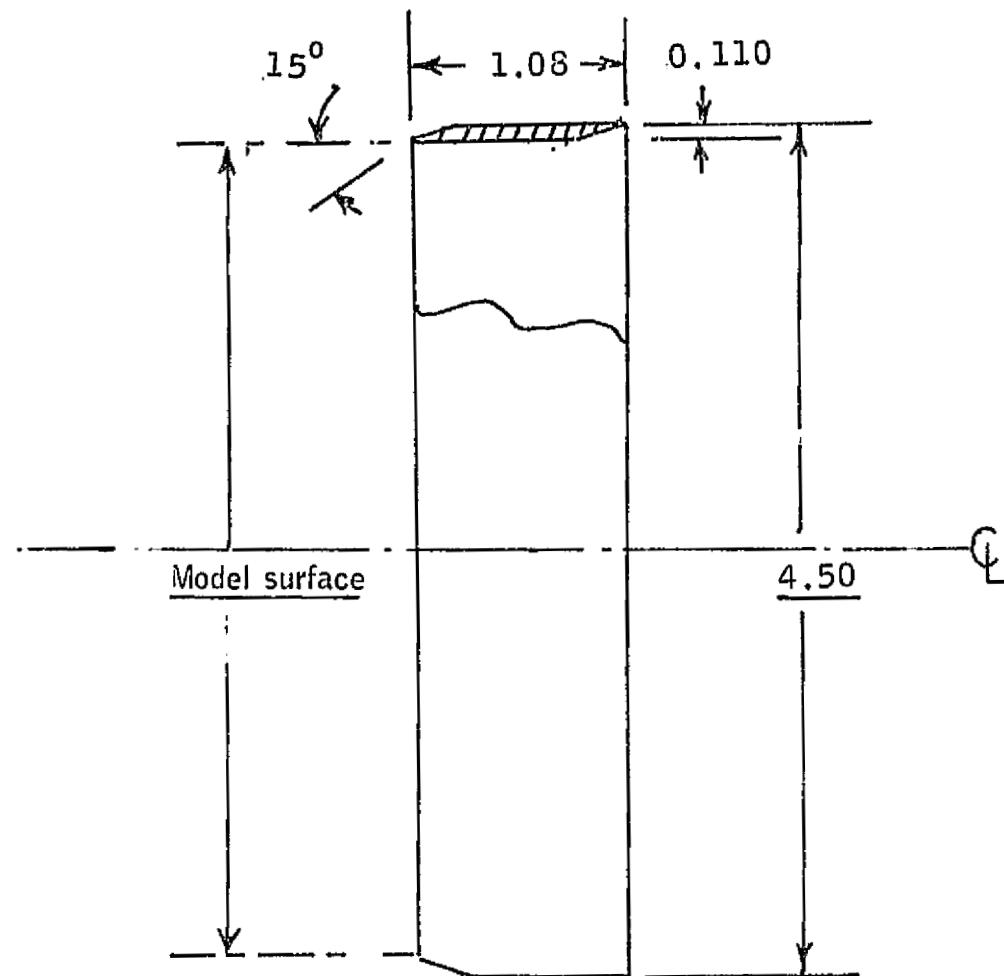


Dimensions are inches  
unless otherwise noted.

c. Fin Details, F<sub>5</sub>

Figure 2. - Continued.

Dimensions are inches  
unless otherwise noted.



d. Fin Retaining Ring  
Figure 2. - Concluded.

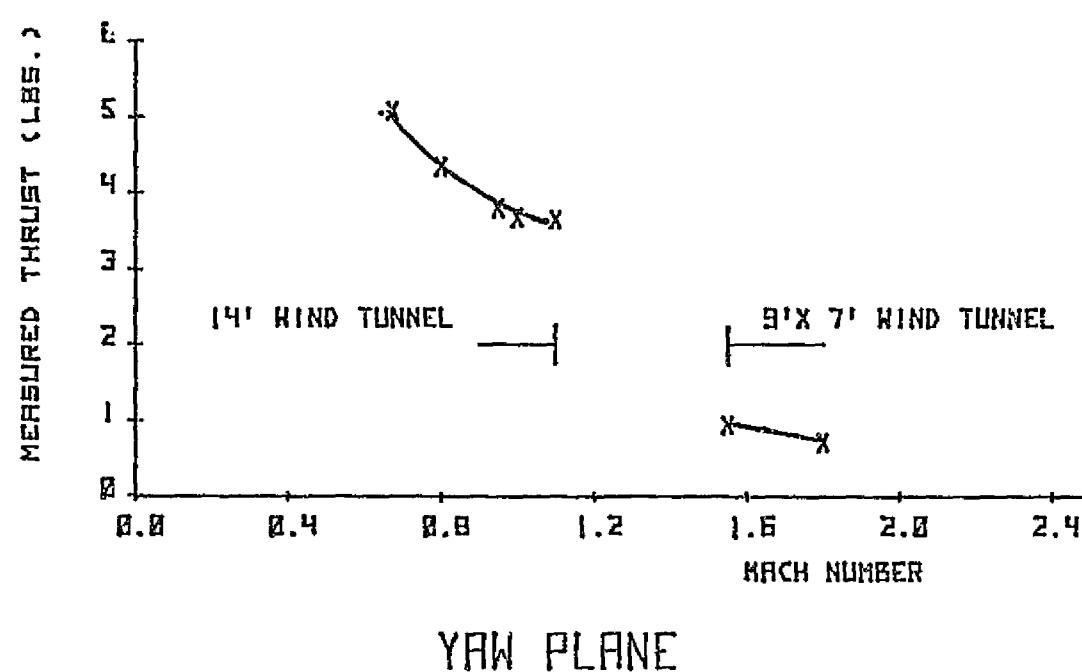
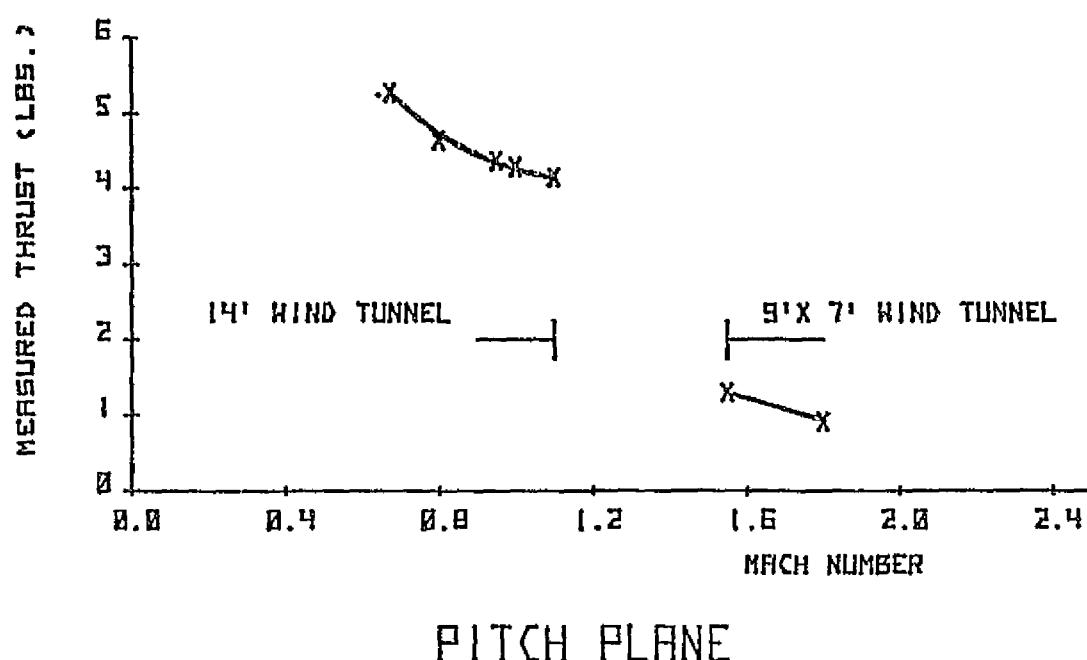


Figure 3. - DCAT Scaled Thrust Levels ( $P_{O_2}/P_F = 86$ ).

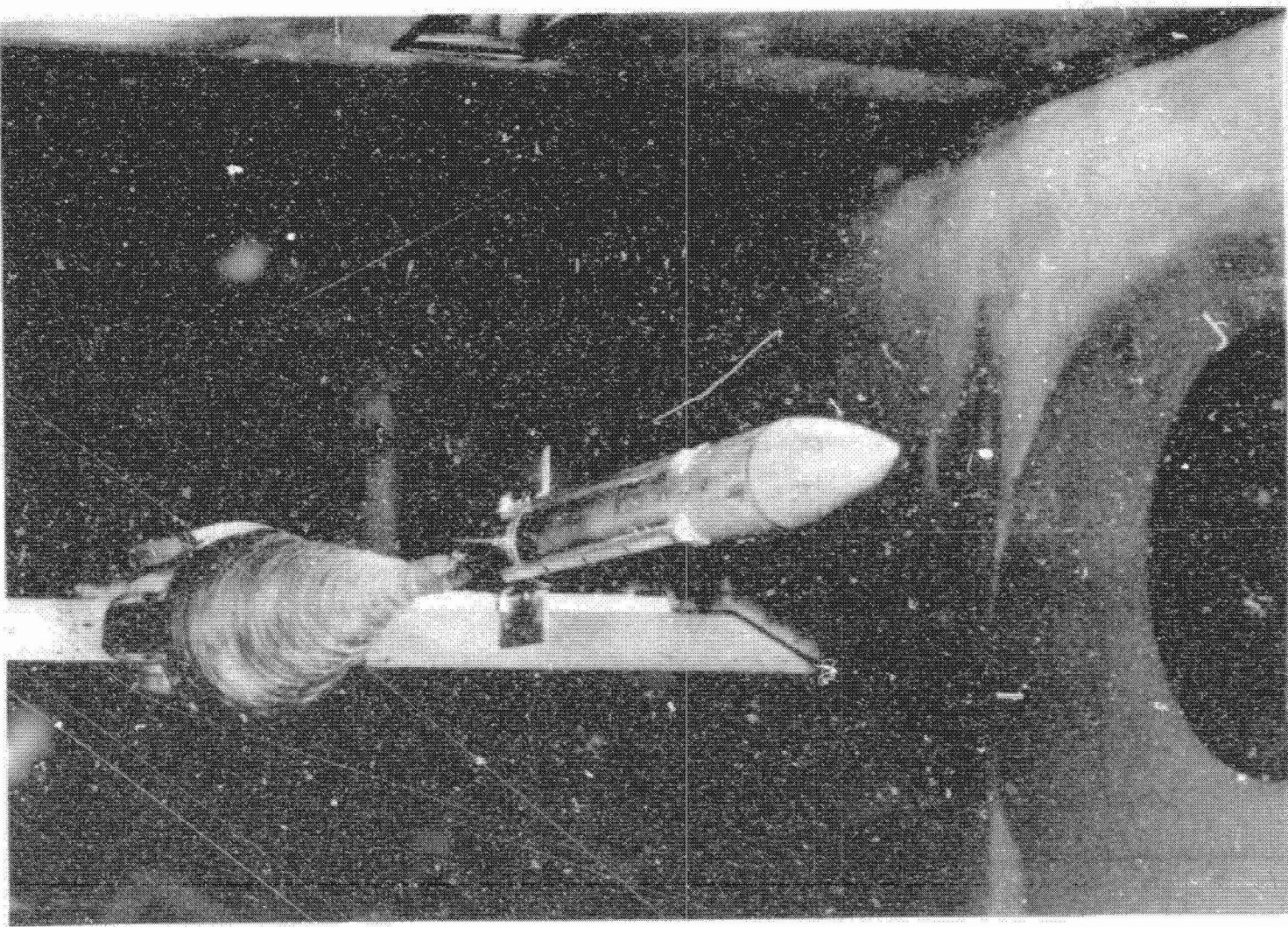
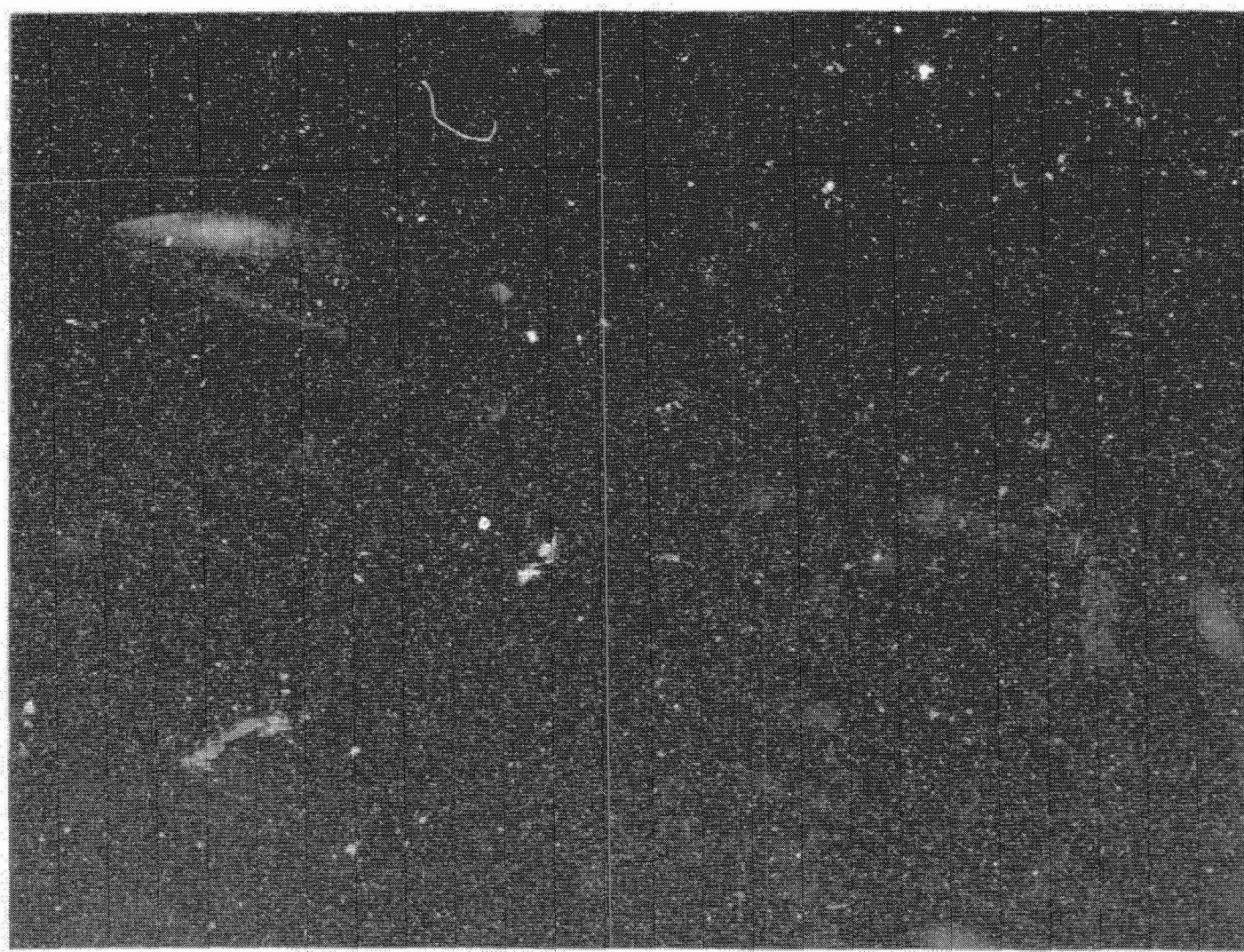


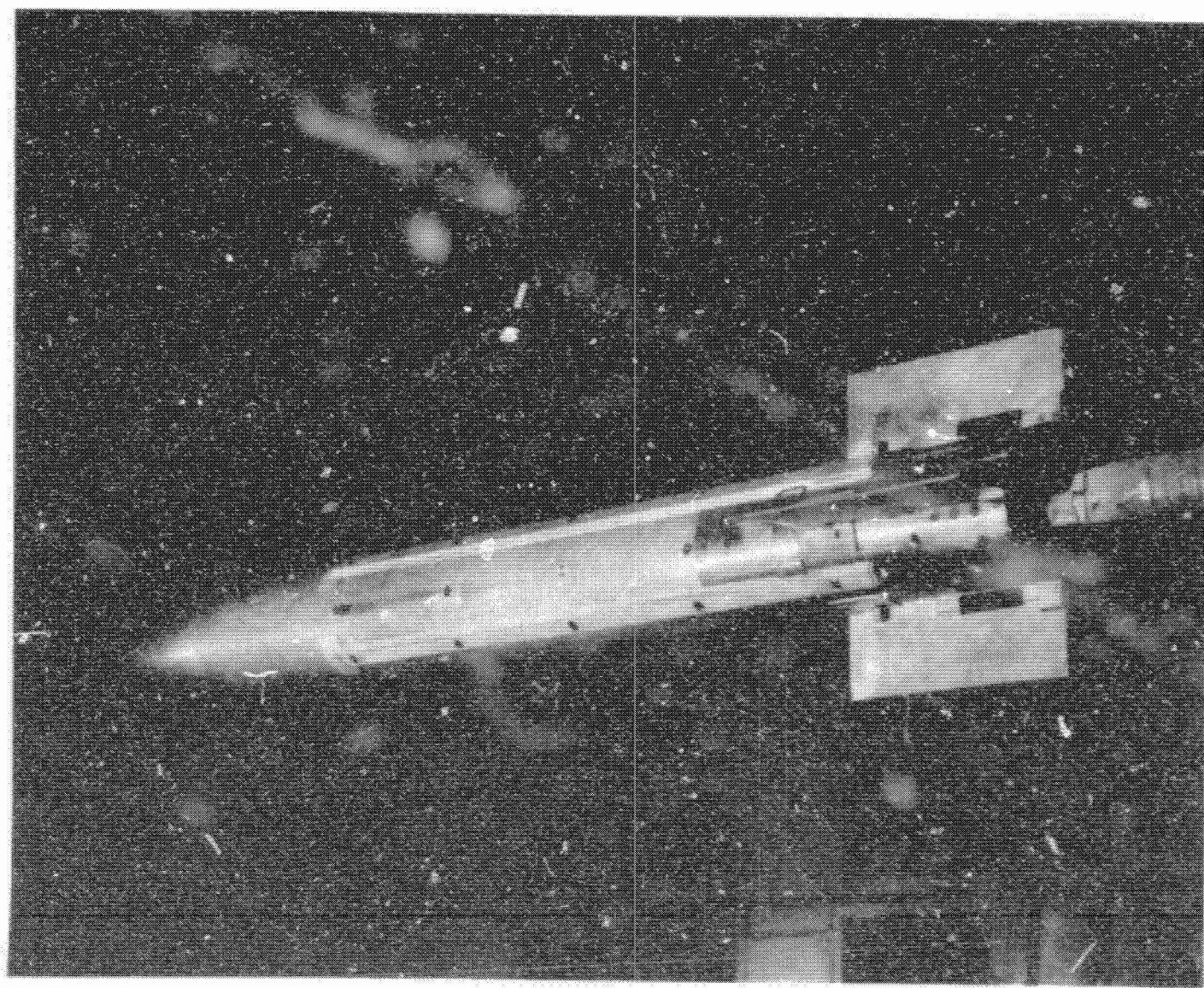
Figure 4. - Photograph of Tunnel Installation of Model.

12



a. Front Oblique View

Figure 5. - Photographs of Model.



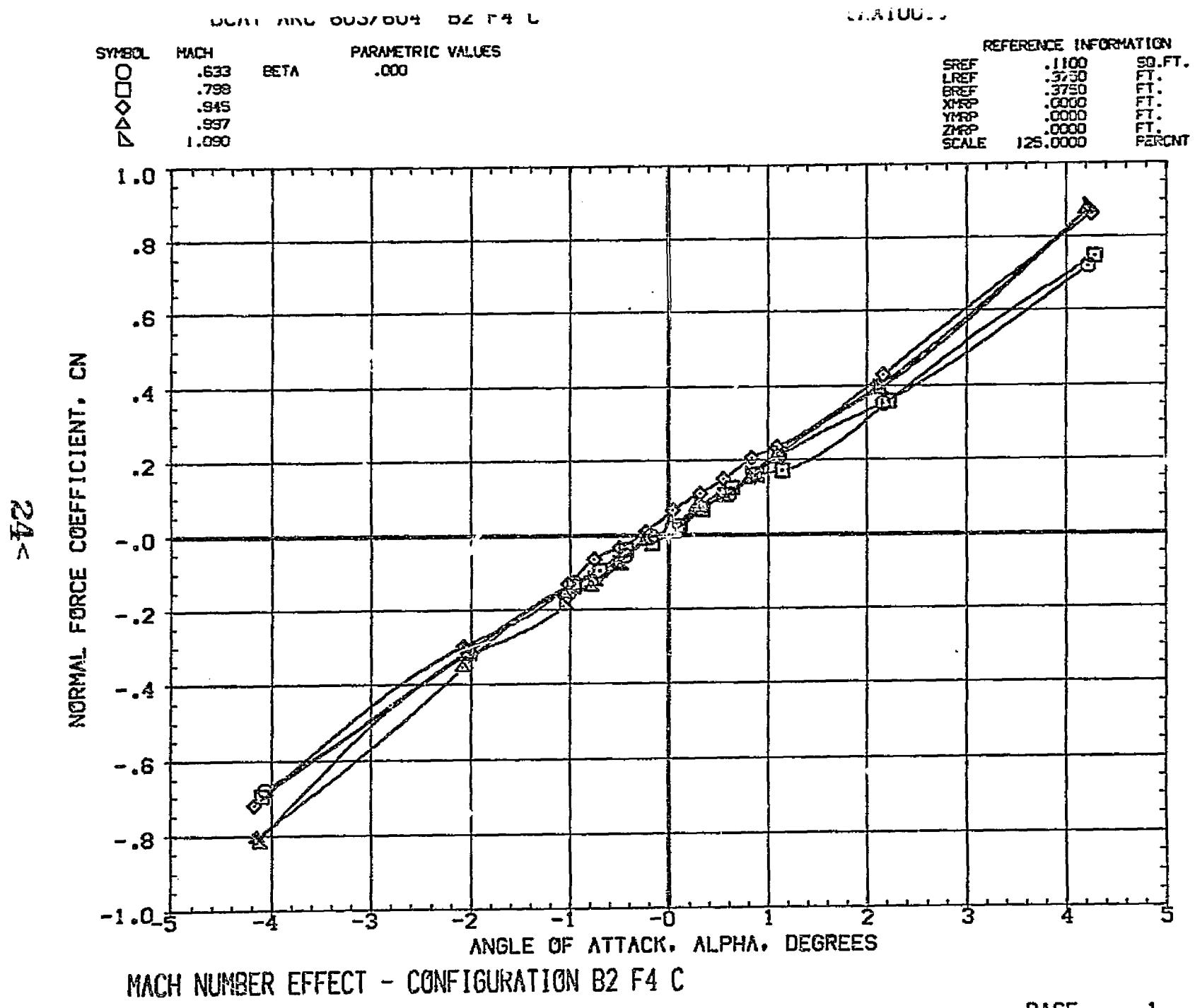
b. Rear Oblique View

Figure 5. - Concluded.

PLOTTED DATA

Tabulations of the plotted data and corresponding source data are available from Data Management Services Operations.

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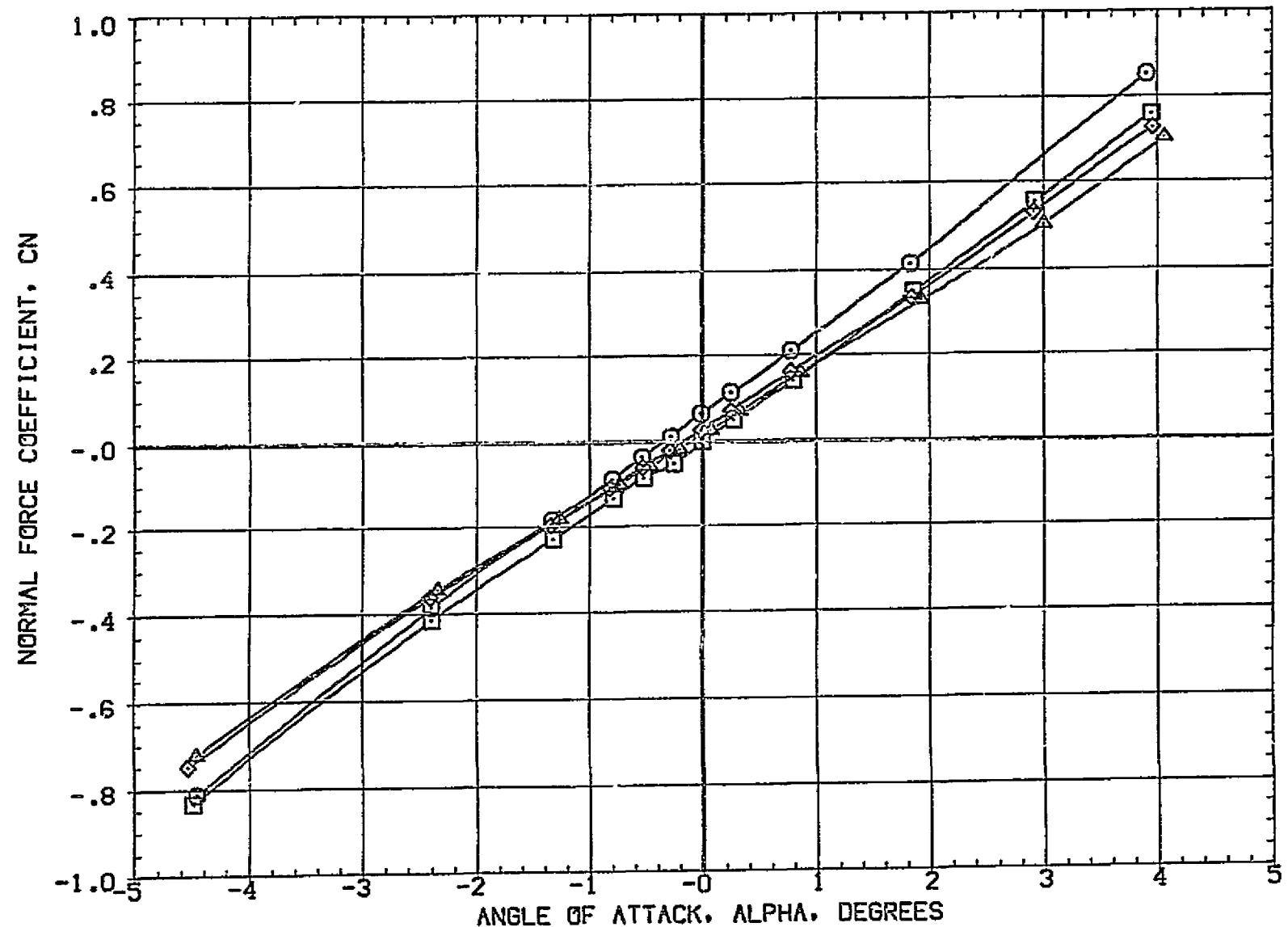


DCAT ARC 603/604 B2 F4 C

(AX1001)

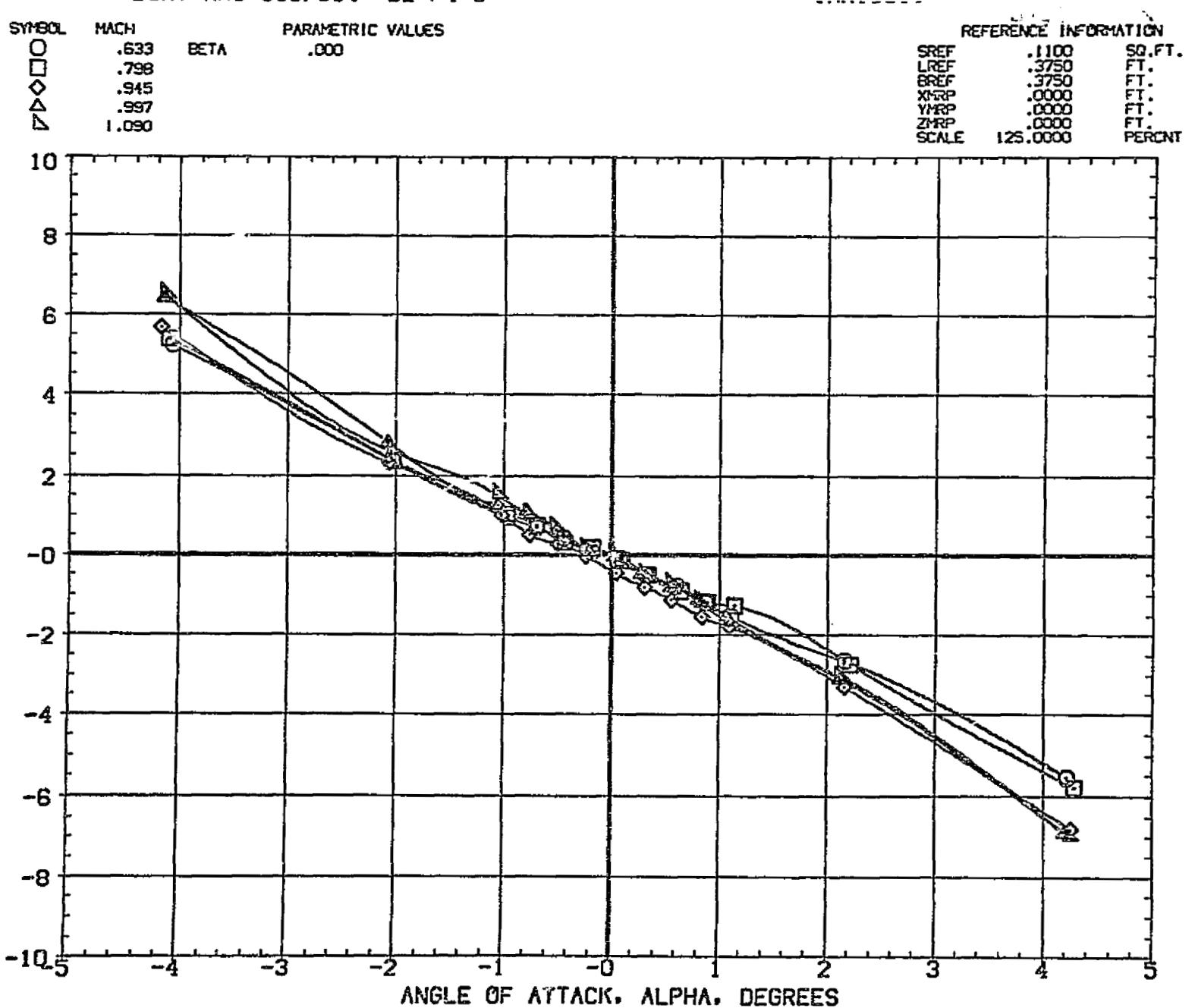
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○ 1.555 BETA .000  
□ 1.801  
◊ 2.200  
△ 2.500

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LREF .3750 FT.  
BREF .3750 FT.  
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YMRP .0000 FT.  
ZMRP .0000 FT.  
SCALE 125.0000 PERCENT



MACH NUMBER EFFECT - CONFIGURATION B2 F4 C

2

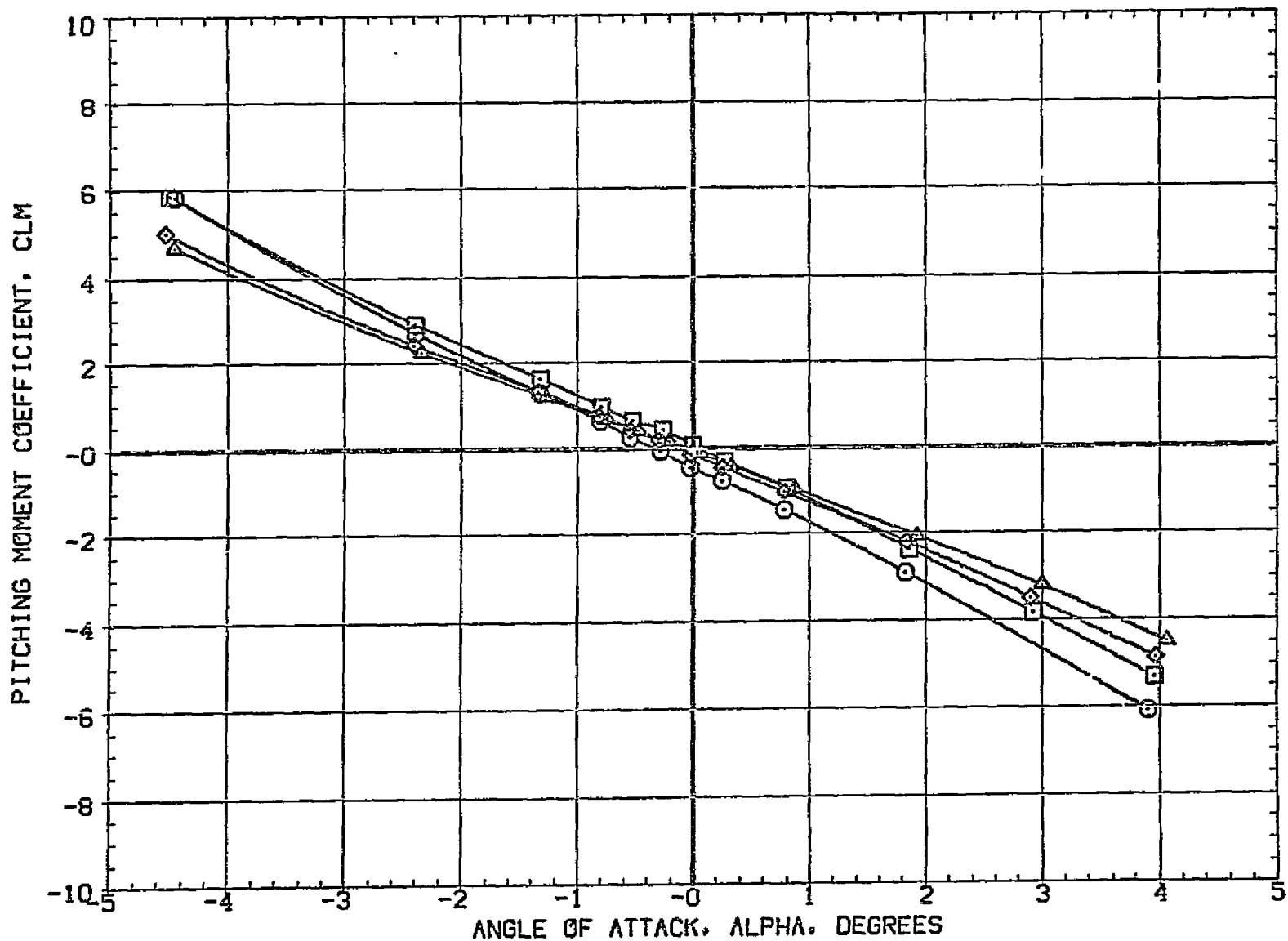


DCAT ARC 603/604 B2 F4 C

(AX1001)

SYMBOL MACH PARAMETRIC VALUES  
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□ 1.801  
◊ 2.200  
△ 2.500

REFERENCE INFORMATION  
SREF .1100 SQ.FT.  
LREF .3750 FT.  
BREF .3750 FT.  
XMRP .0000 FT.  
YMRP .0000 FT.  
ZMRP .0000 FT.  
SCALE 125.0000 PERCENT



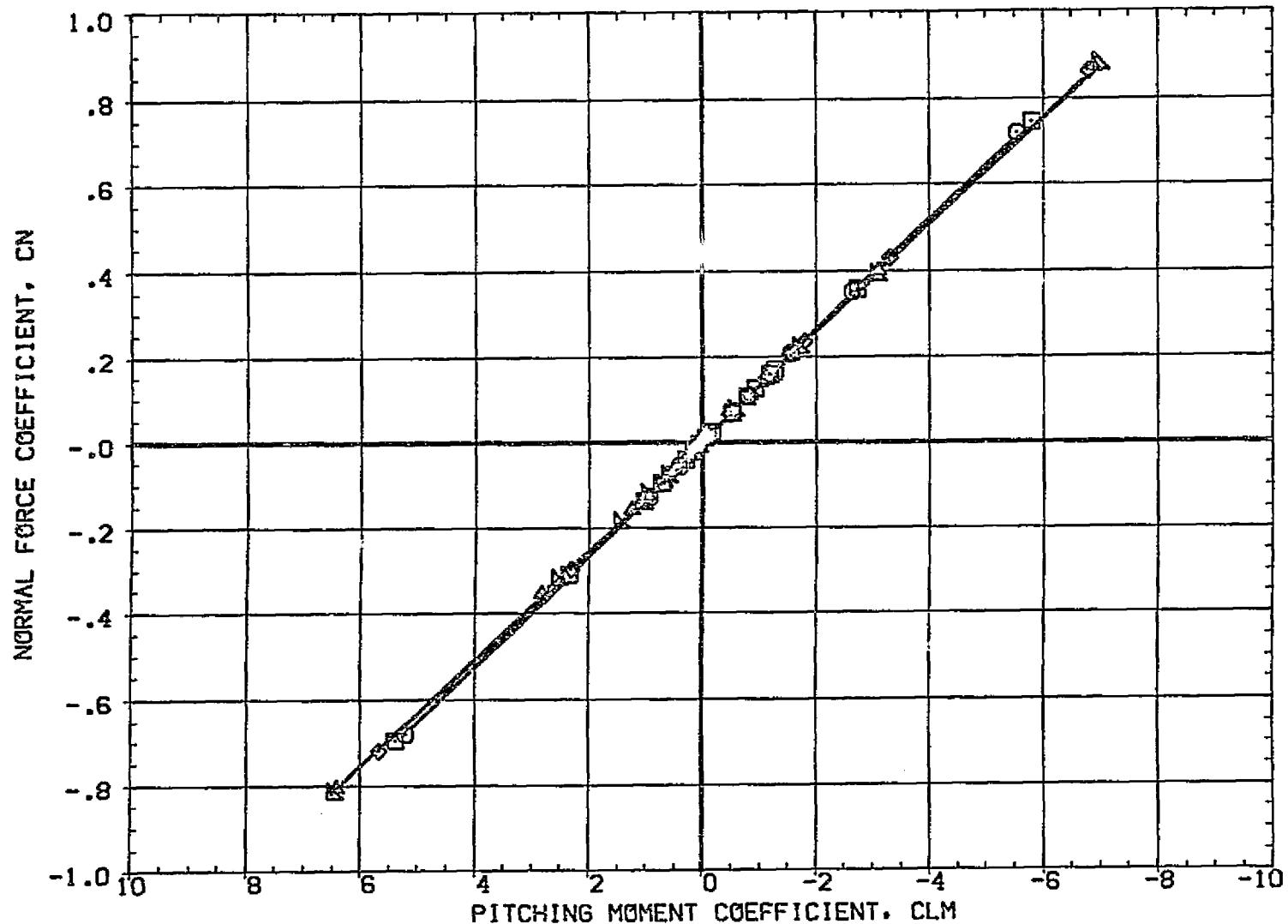
MACH NUMBER EFFECT - CONFIGURATION B2 F4 C

DCAT ARC 603/604 B2 F4 C

(AX1001)

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□ .799  
◊ .945  
△ .997  
▽ 1.090

REFERENCE INFORMATION  
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SCALE 125.0000 PERCENT

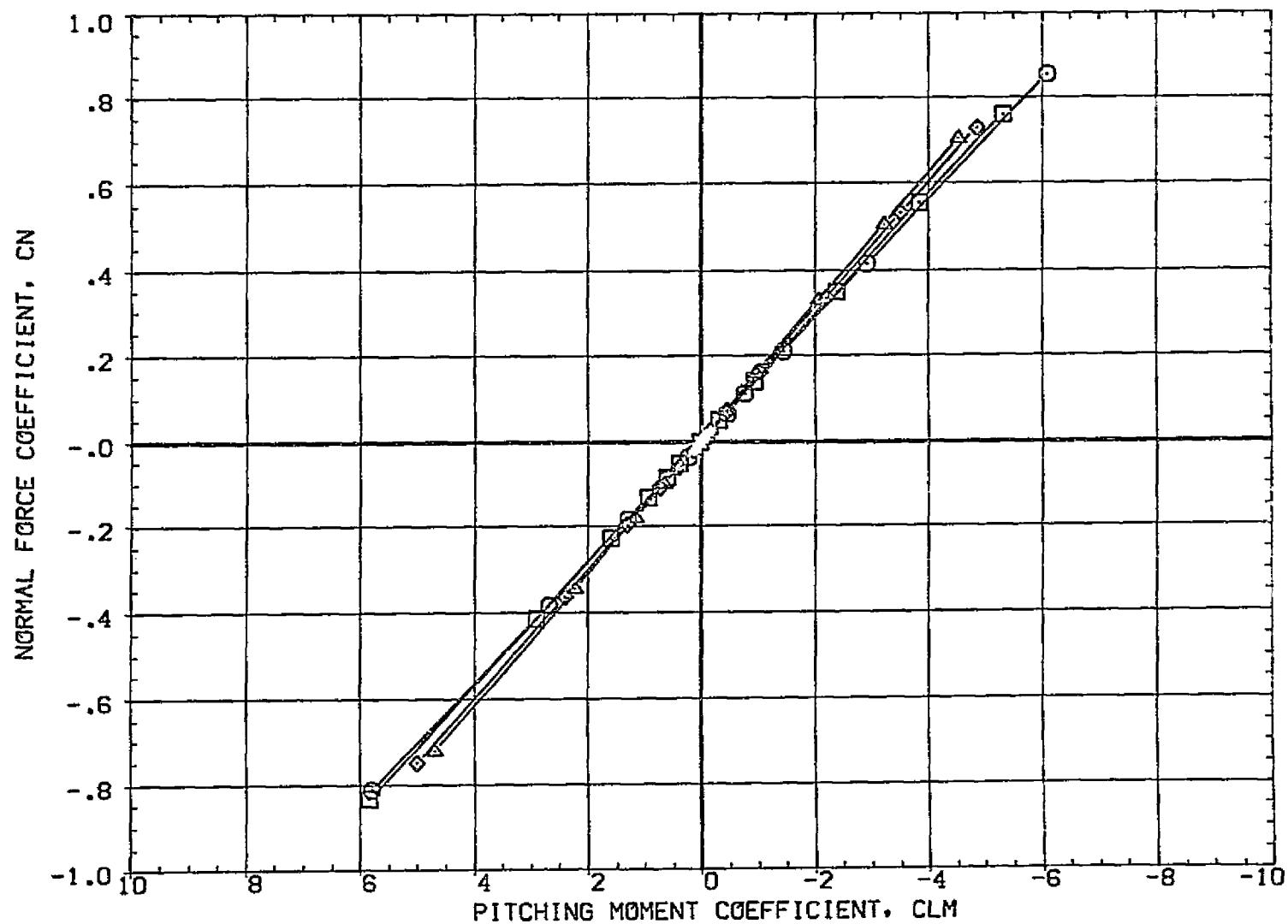


DCAT ARC 603/604 B2 F4 C

(AX1001)

SYMBOL MACH PARAMETRIC VALUES  
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□ 1.801  
◊ 2.200  
△ 2.500

REFERENCE INFORMATION  
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LREF .3750 FT.  
BREF .3750 FT.  
XMRP .0000 FT.  
YMRP .0000 FT.  
ZMRP .0000 FT.  
SCALE 125.0000 PERCENT



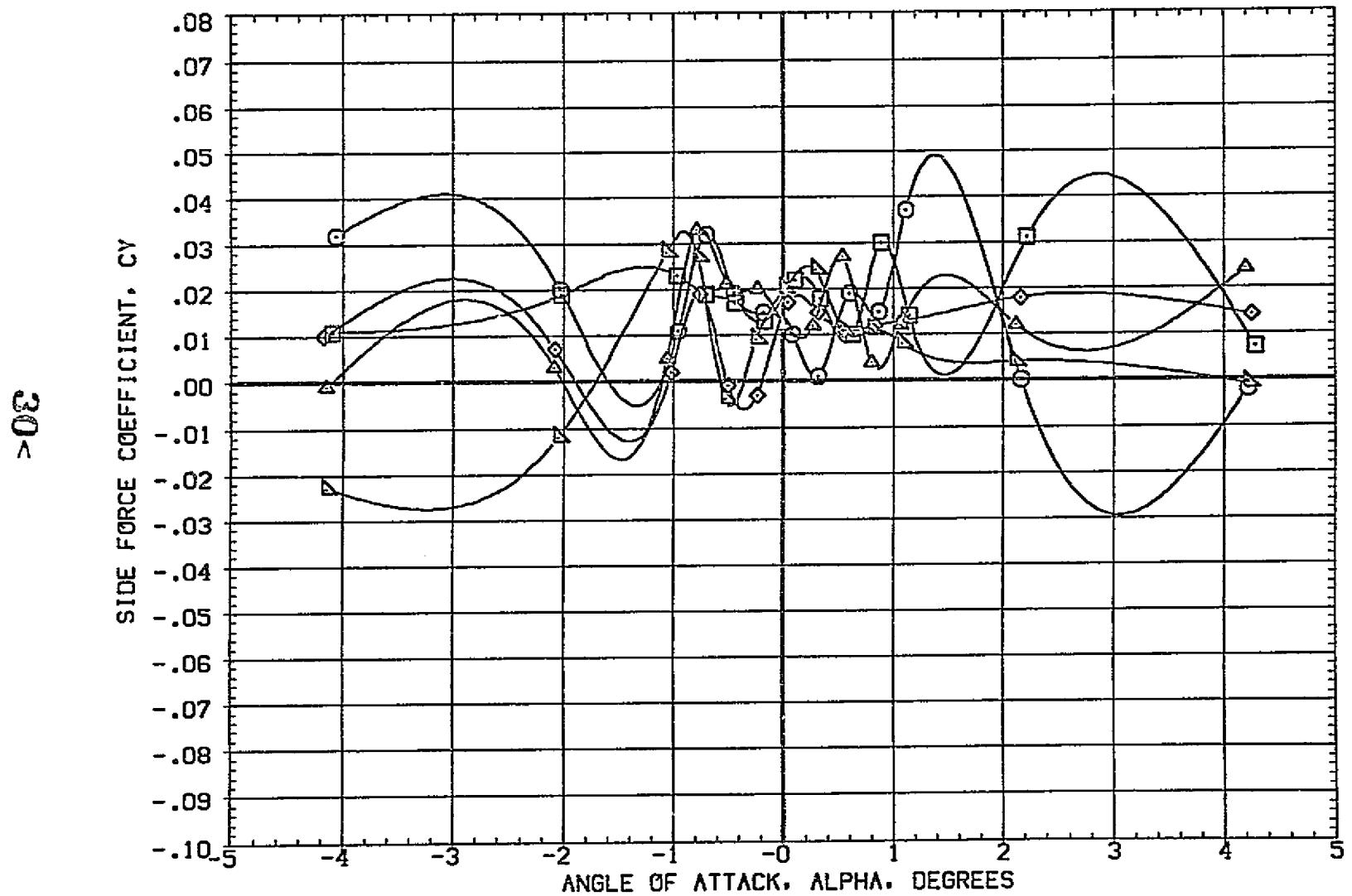
MACH NUMBER EFFECT - CONFIGURATION B2 F4 C

DCAT ARC 603/604 B2 F4 C

(AX1001)

SYMBOL	MACH	PARAMETRIC VALUES
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□	.798	
◊	.945	
△	.997	
▽	1.090	

REFERENCE INFORMATION		
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LREF	.3750	FT.
BREF	.3750	FT.
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YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCENT



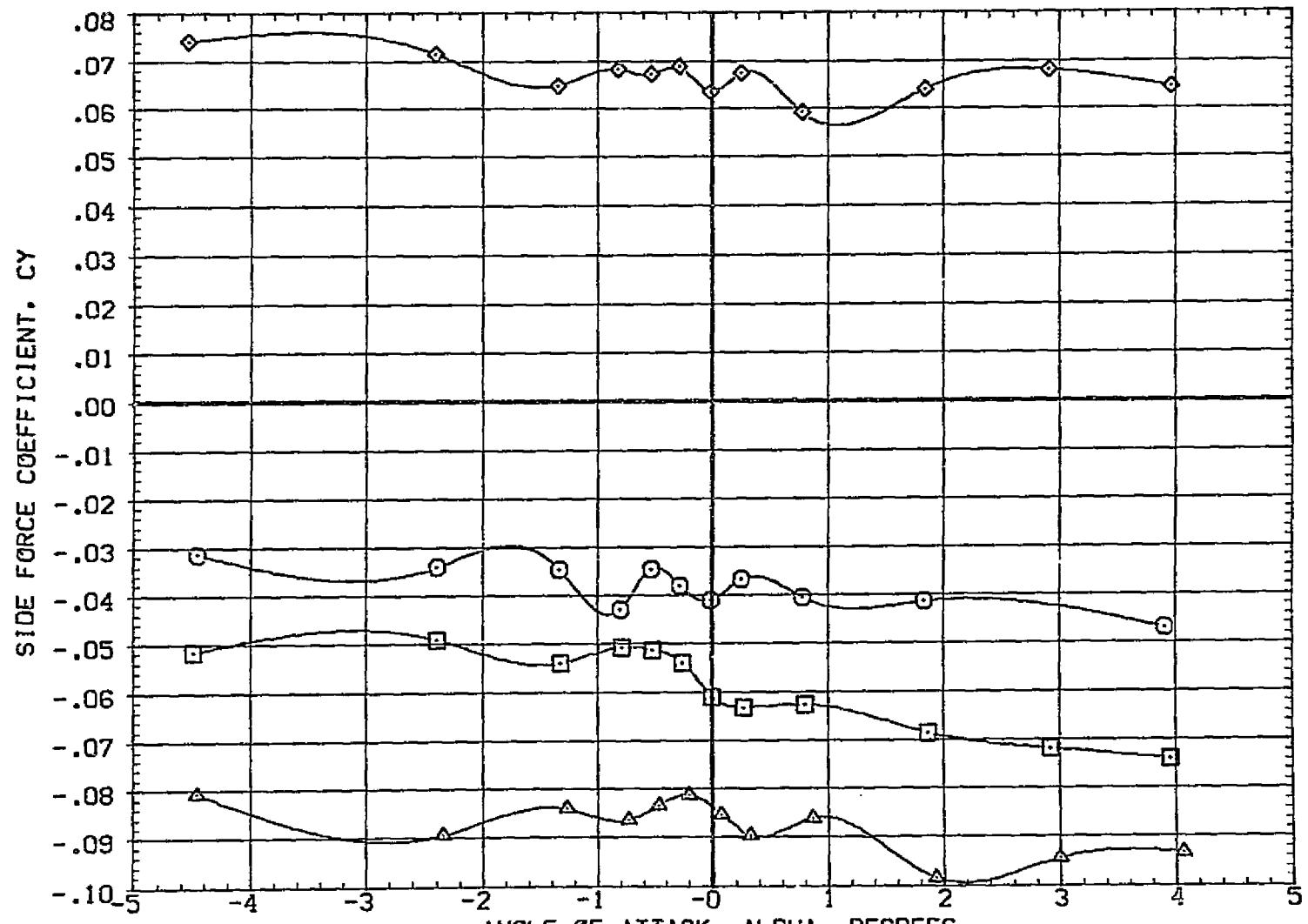
## MACH NUMBER EFFECT - CONFIGURATION B2 F4 C

DCAT ARC 603/604 B2 F4 C

(AX1001)

SYMBOL    MACH                    PARAMETRIC VALUES  
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□        1.801  
◊        2.200  
△        2.500

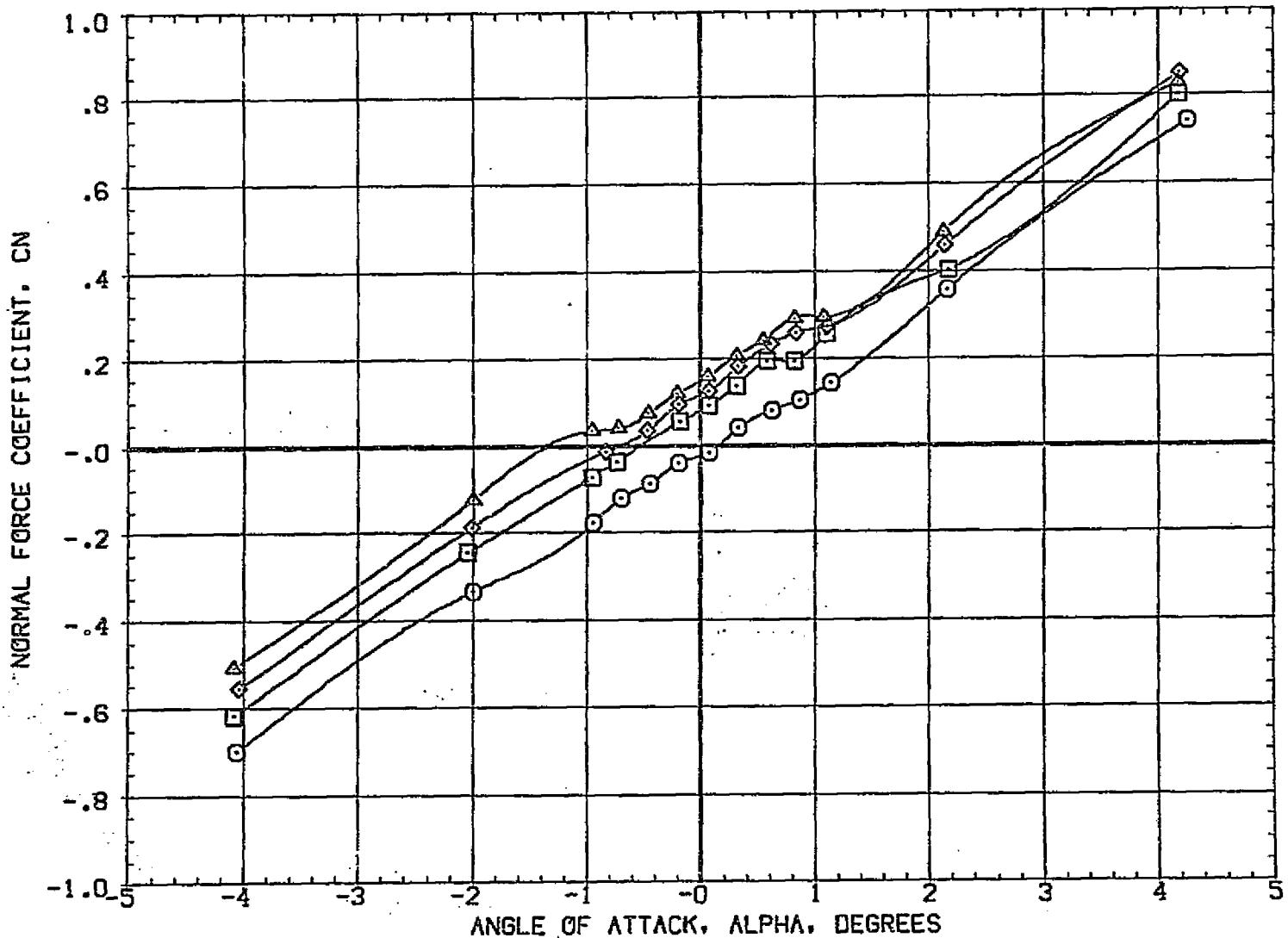
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SREF      .1100    SQ.FT.  
LREF      .3750    FT.  
BREF      .3750    FT.  
XMRP     .0000    FT.  
YMRP     .0000    FT.  
ZMRP     .0000    FT.  
SCALE    125.0000   PERCENT



MACH NUMBER EFFECT - CONFIGURATION B2 F4 C

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) □ DCAT ARC 603/604 B2 F4 C  
 (BX1004) × DCAT ARC 603/604 B2 F4 C  
 (BX1005) △ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	.000	86.000	LREF	.3750 FT.
.000	50.000	.000	86.000	BREF	.3750 FT.
.000	100.000	.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



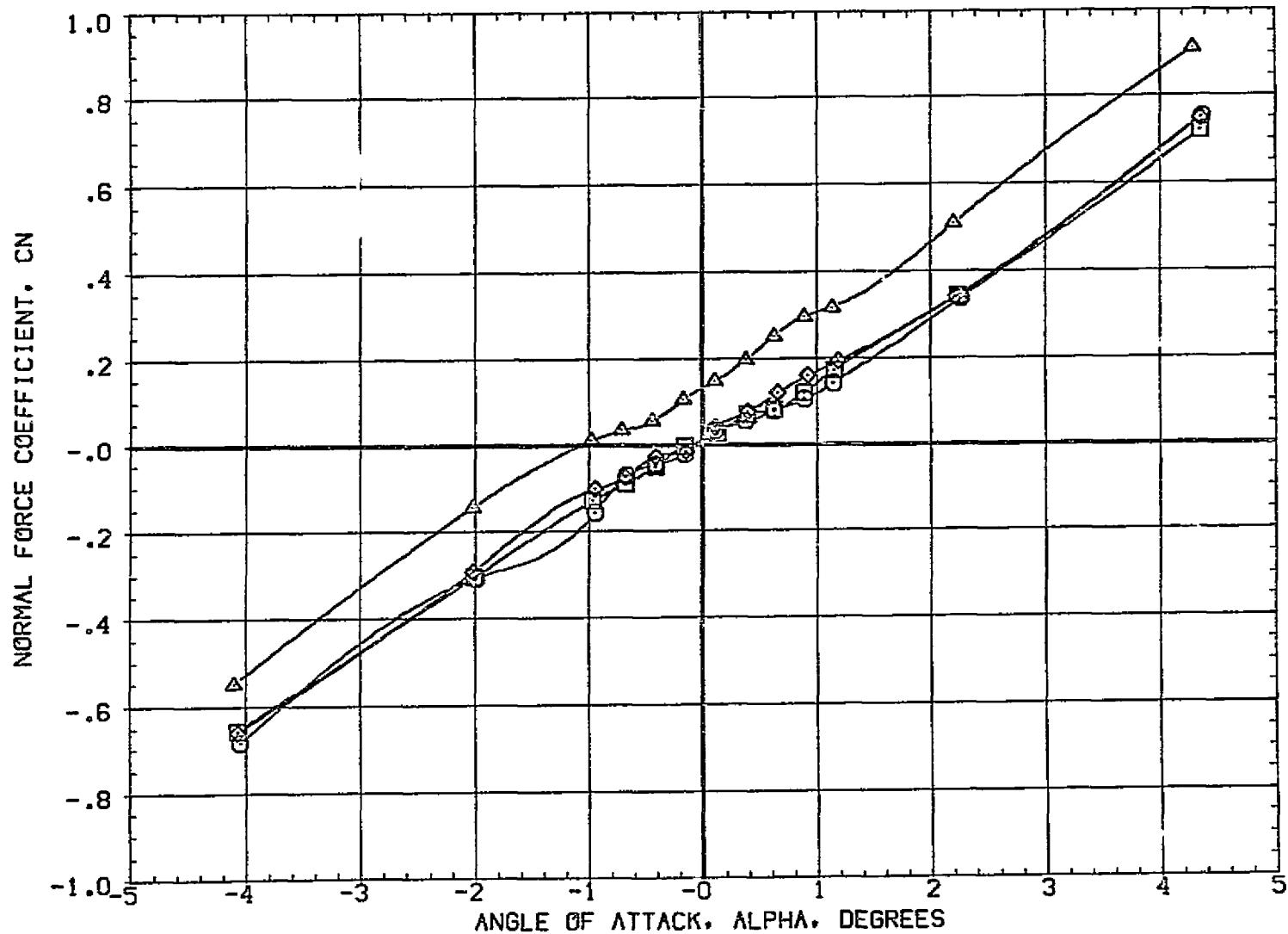
PITCH MODULATION EFFECT

CADMACH = 0.64

PAGE 9

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) □ DCAT ARC 603/604 B2 F4 C  
 (BX1004) X DCAT ARC 603/604 B2 F4 C  
 (BX1005) △ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	.000	86.000	LREF	.3750 FT.
.000	60.000	.000	86.000	BREF	.3750 FT.
.000	100.000	.000	86.000	XHPP	.0000 FT.
				YHPP	.0000 FT.
				ZHPP	.0000 FT.
				SCALE	125.0000 PERCNT

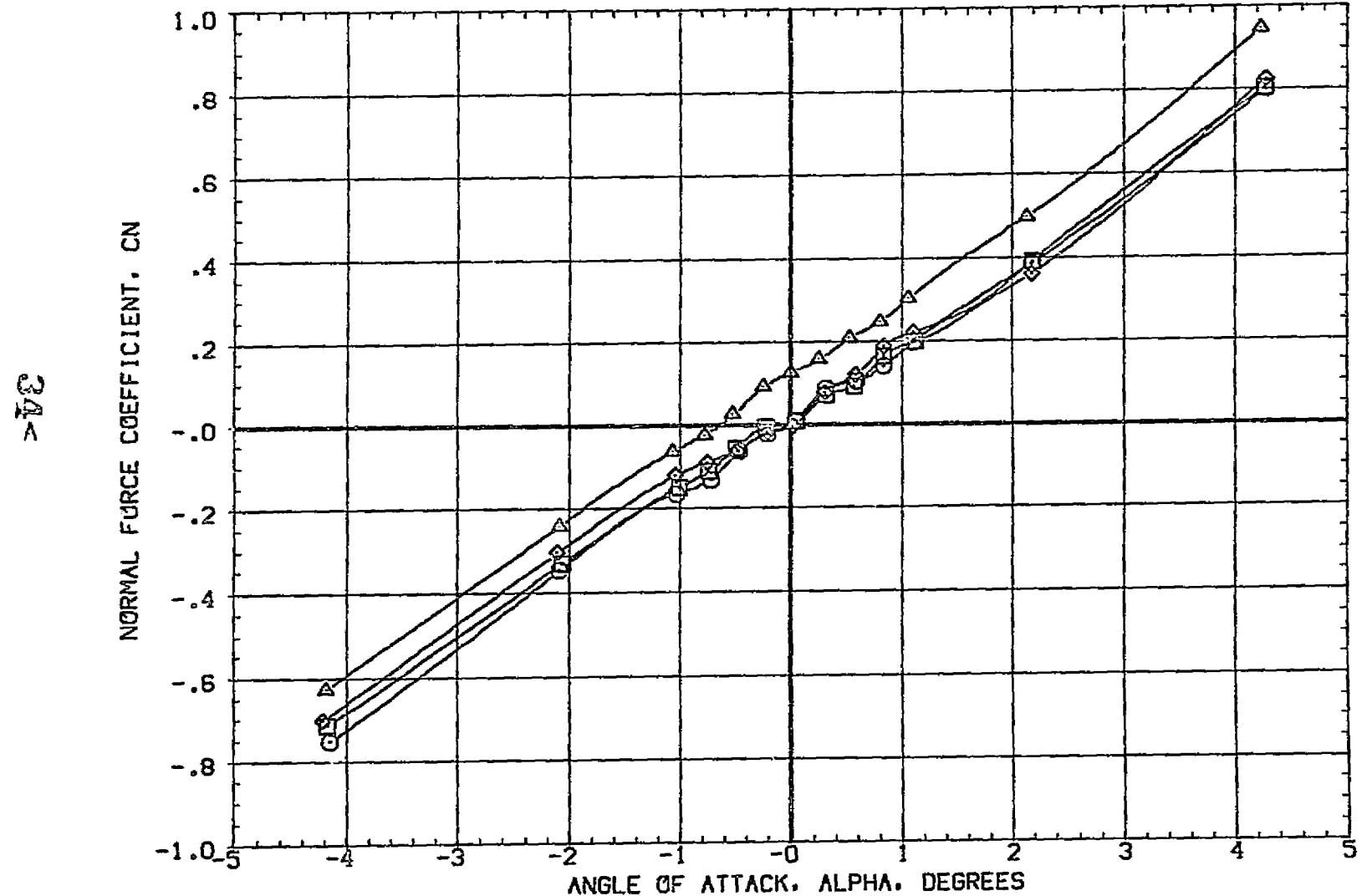


### PITCH MODULATION EFFECT

EDIMARCH - 0 80

PAGE 10

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	P0/PF	REFERENCE	INFORMATION
(BX1002)	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000	SREF	.1100 SQ.FT.
(BX1003)	DCAT ARC 603/604 B2 F4 C	.000	40.000	.000	86.000	LREF	.3750 FT.
(BX1004)	DCAT ARC 603/604 B2 F4 C	.000	60.000	.000	86.000	BREF	.3750 FT.
(BX1005)	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000	XMRP	.0000 FT.
						YMRP	.0000 FT.
						ZMRP	.0000 FT.
						SCALE	125.0000 PERCENT



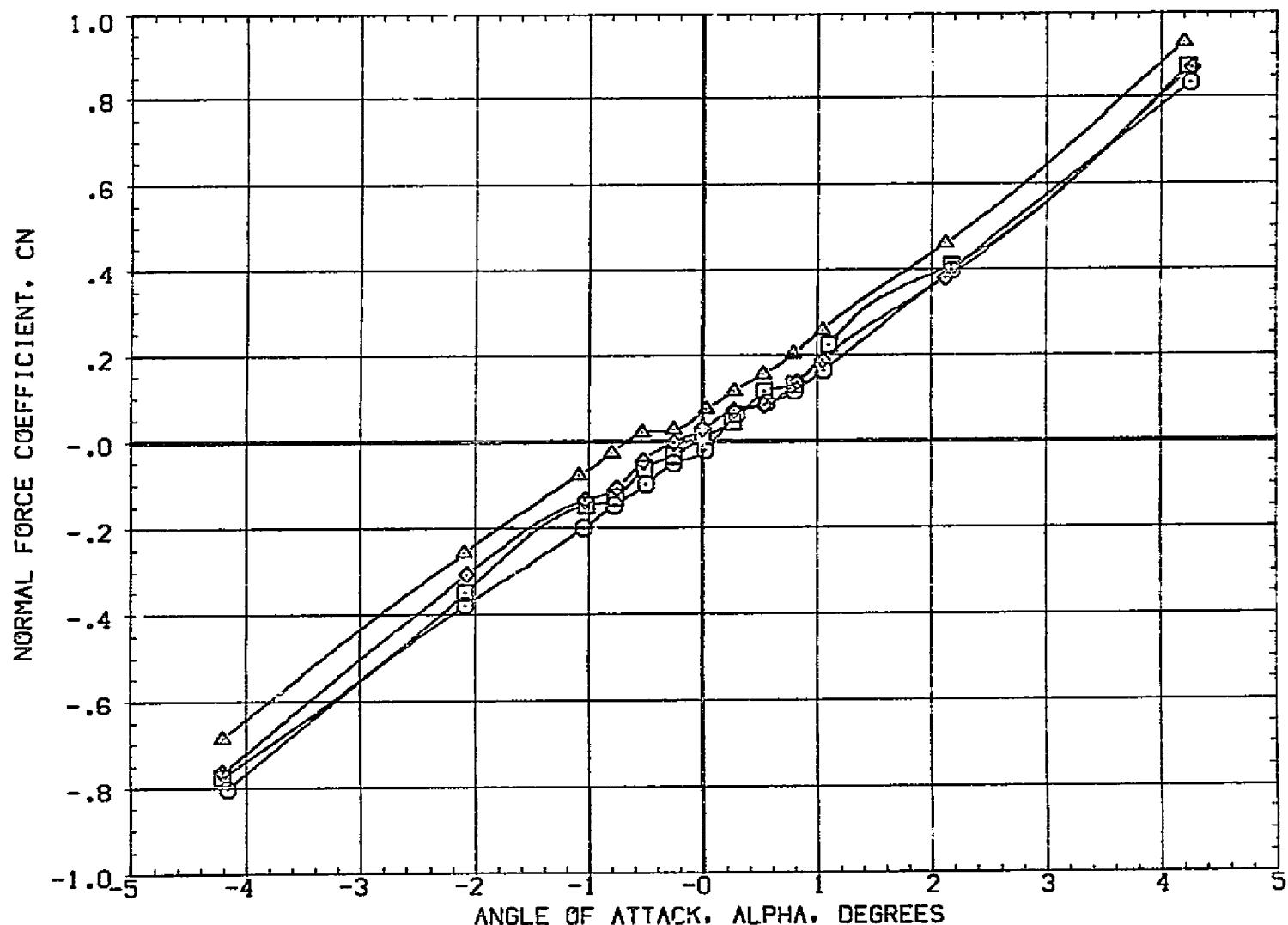
PITCH MODULATION EFFECT

(C)MACH = 0.95

PAGE 11

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) X DCAT ARC 603/604 B2 F4 C  
 (BX1004) D DCAT ARC 603/604 B2 F4 C  
 (BX1005) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PCJ/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SD.FT.
.000	40.000	.000	86.000	LREF	.3750 FT.
.000	60.000	.000	86.000	BREF	.3750 FT.
.000	100.000	.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



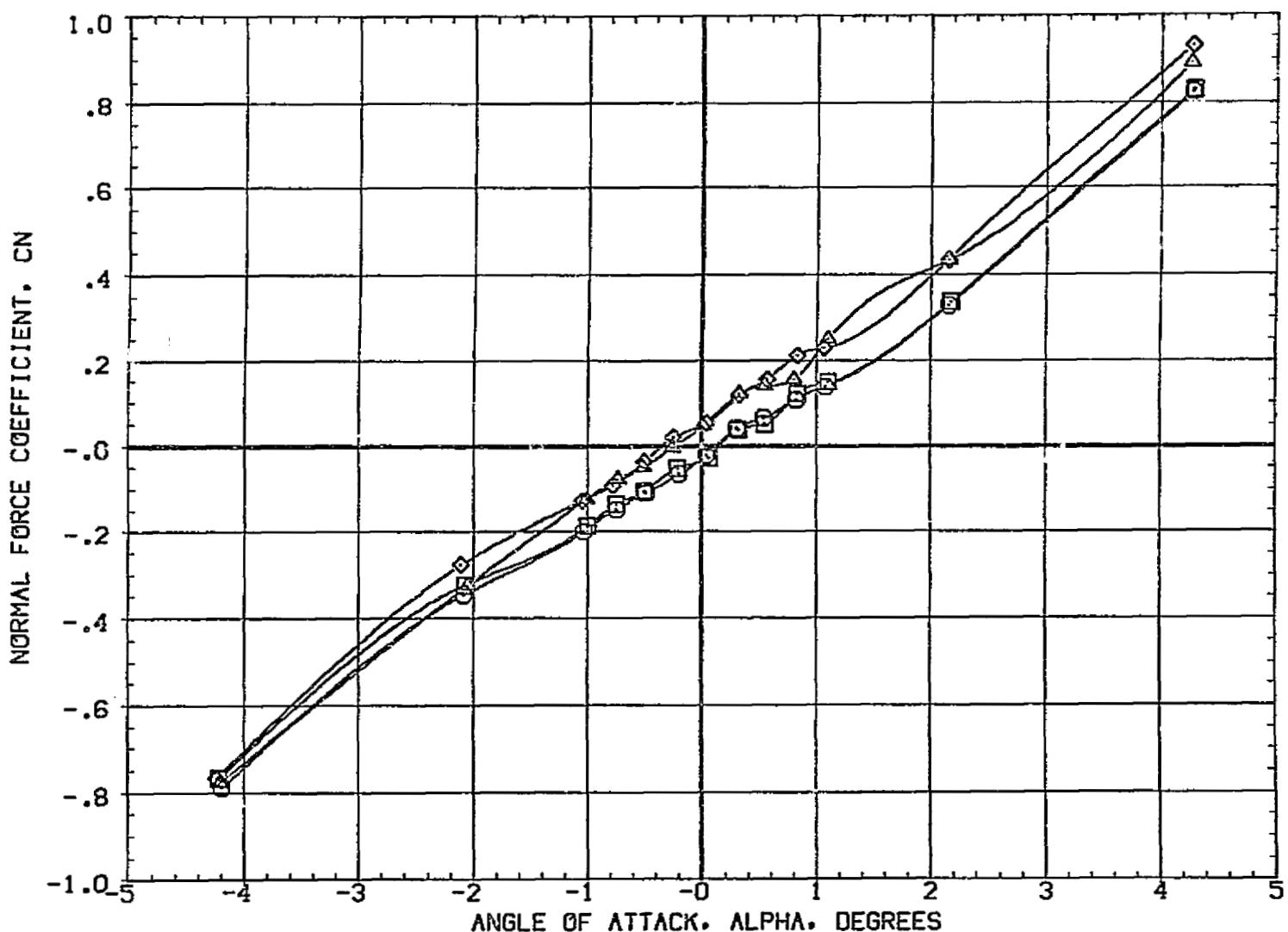
PITCH MODULATION EFFECT

(D)MACH = 1.00

PAGE 12

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) □ DCAT ARC 603/604 B2 F4 C  
 (BX1004) X DCAT ARC 603/604 B2 F4 C  
 (BX1005) A DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 50.FT.
.000	40.000	.000	86.000	LREF .3750 FT.
.000	60.000	.000	86.000	BREF .3750 FT.
.000	100.000	.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



>95

PITCH MODULATION EFFECT

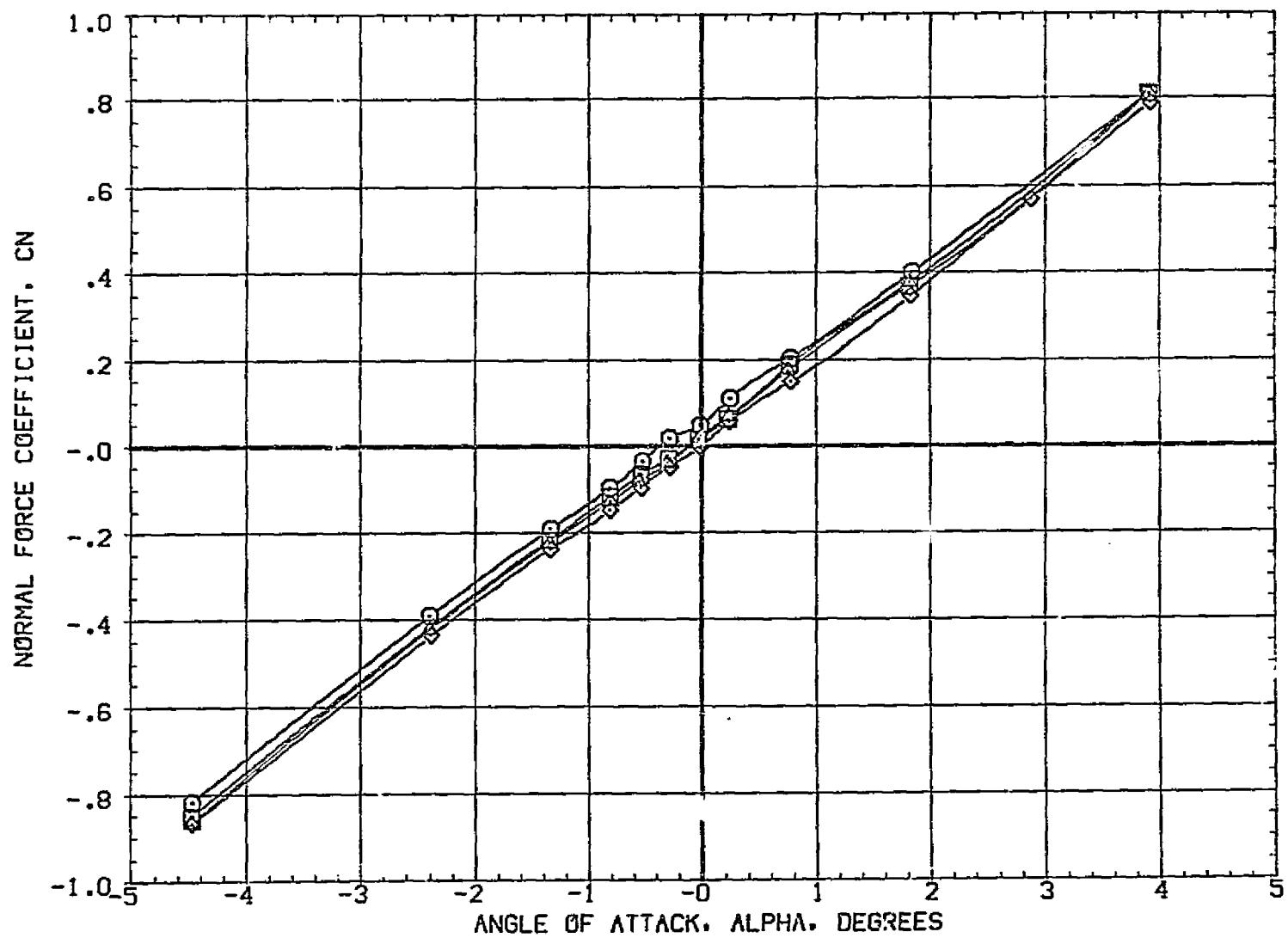
(E)MACH = 1.10

PAGE 13

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) □ DCAT ARC 603/604 B2 F4 C  
 (BX1004) X DCAT ARC 603/604 B2 F4 C  
 (BX1005) △ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PCU/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	.000	86.000	LREF	.3750 FT.
.000	60.000	.000	86.000	BREF	.3750 FT.
.000	100.000	.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT

>2E



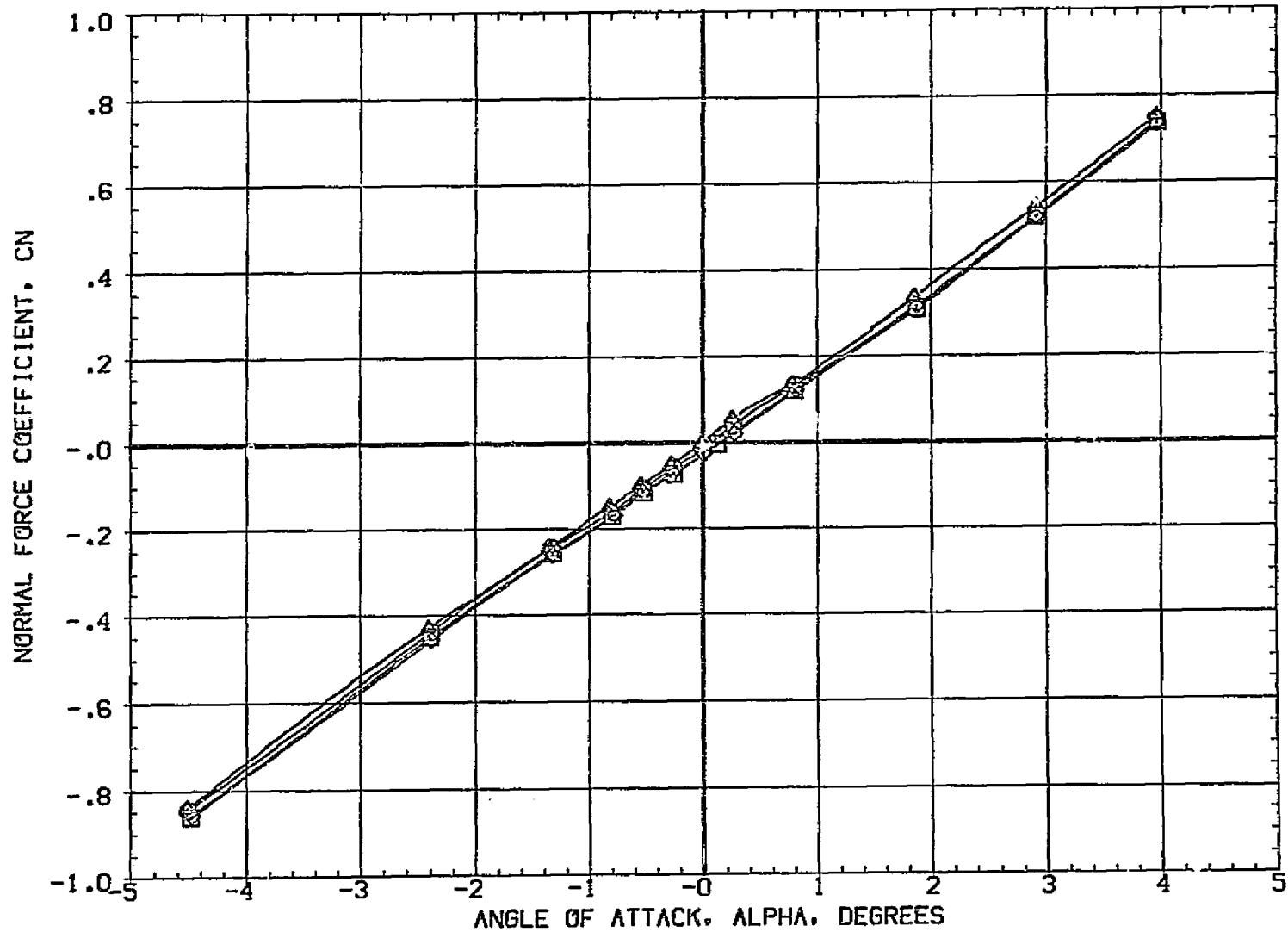
PITCH MODULATION EFFECT

(FMACH = 1.56

PAGE 14

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) X DCAT ARC 603/604 B2 F4 C  
 (BX1004)  $\Delta$  DCAT ARC 603/604 B2 F4 C  
 (BX1005)  $\times$  DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	.000	86.000	LREF	.3750 FT.
.000	60.000	.000	86.000	BREF	.3750 FT.
.000	100.000	.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



PITCH MODULATION EFFECT

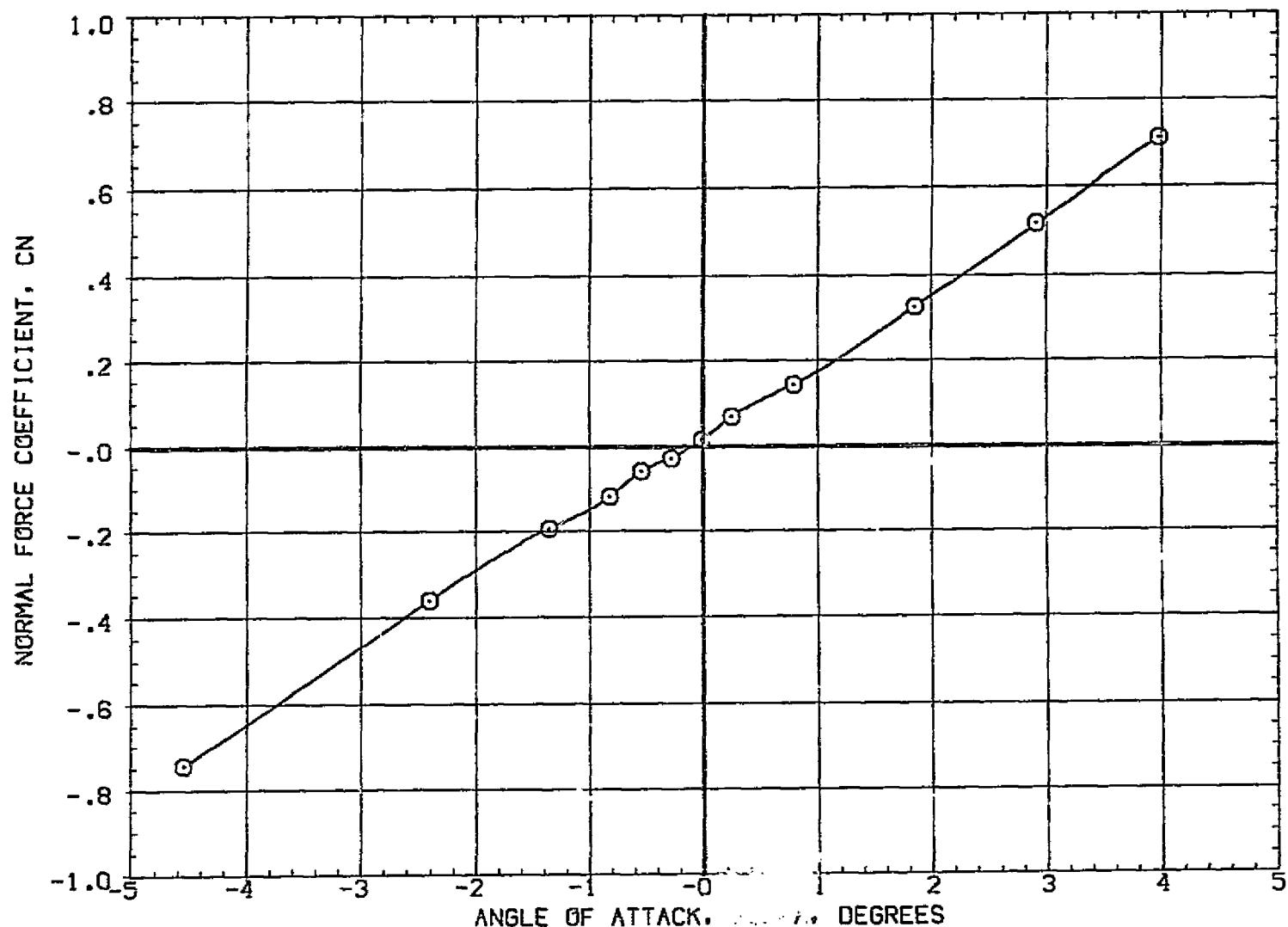
(GOMACH = 1.80)

PAGE 15

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O CAT ARC 603/604 82 F4 C  
 (BX1003) □ DATA NOT AVAILABLE  
 (BX1004) × DATA NOT AVAILABLE  
 (BX1005) Δ DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	POL/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SD.FT.
.000	40.000	.000	86.000	LREF	.3750 FT.
.000	60.000	.000	86.000	BREF	.3750 FT.
.000	100.000	.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT

33



PITCH MODULATION EFFECT

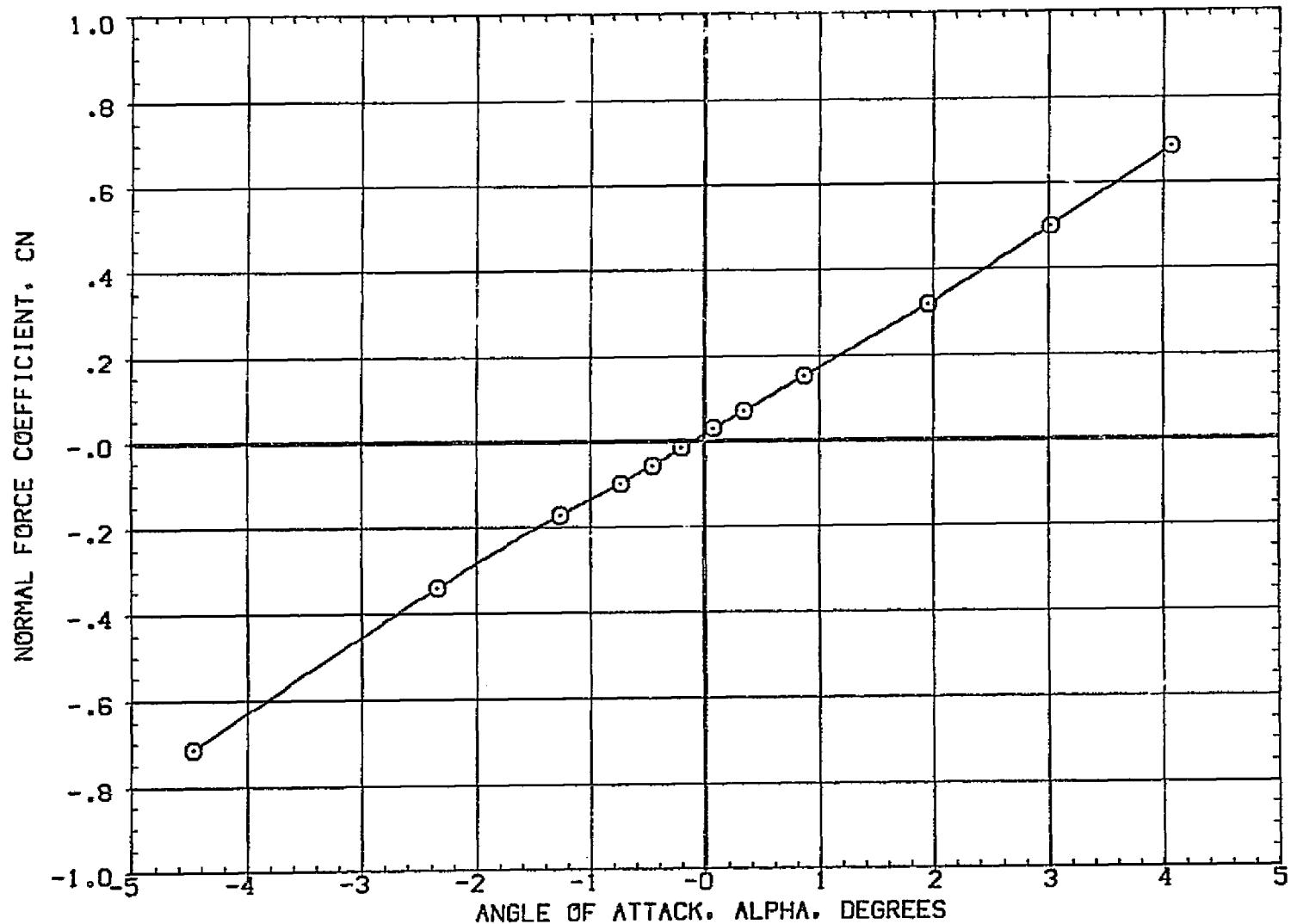
MACH = 2.20

PAGE 16

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) □ DATA NOT AVAILABLE  
 (BX1004) X DATA NOT AVAILABLE  
 (BX1005) Δ DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	.000	66.000	SREF	.1100 SQ.FT.
.000	40.000	.000	66.000	LREF	.3750 FT.
.000	60.000	.000	66.000	BREF	.3750 FT.
.000	100.000	.000	66.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT

>0°



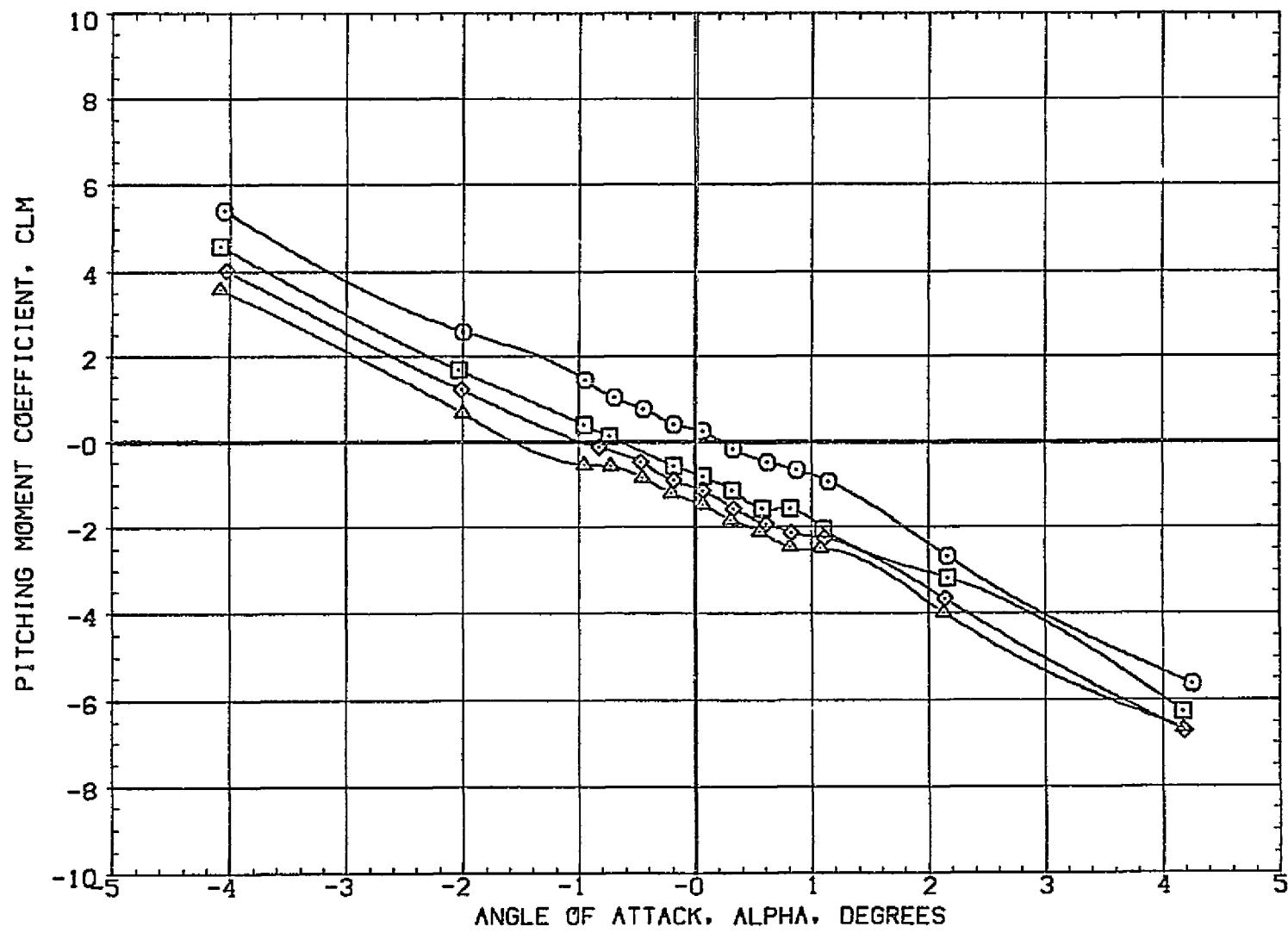
PITCH MODULATION EFFECT

(1)MACH = 2.50

PAGE 17

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) □ DCAT ARC 603/604 B2 F4 C  
 (BX1004) X DCAT ARC 603/604 B2 F4 C  
 (BX1005) ▲ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SO.FT.
.000	40.000	.000	86.000	LREF	.3750 FT.
.000	60.000	.000	86.000	BREF	.3750 FT.
.000	100.000	.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



>TT

PITCH MODULATION EFFECT

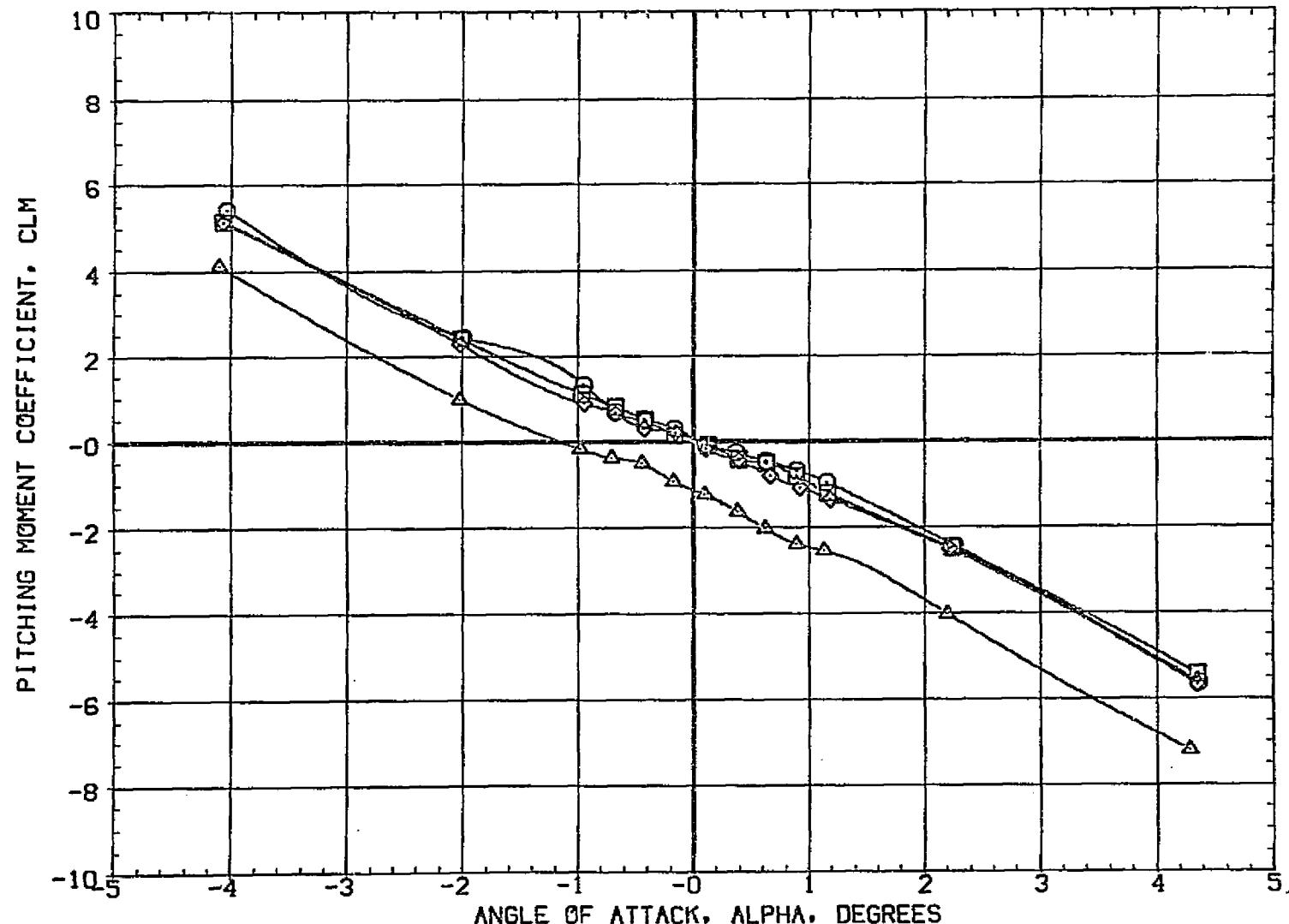
MACH = 0.64

PAGE 18

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) □ DCAT ARC 603/604 B2 F4 C  
 (BX1004) X DCAT ARC 603/604 B2 F4 C  
 (BX1005) DDCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SD.FT.
.000	40.000	.000	86.000	LREF	.3750 FT.
.000	60.000	.000	86.000	BREF	.3750 FT.
.000	100.000	.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT

>27<



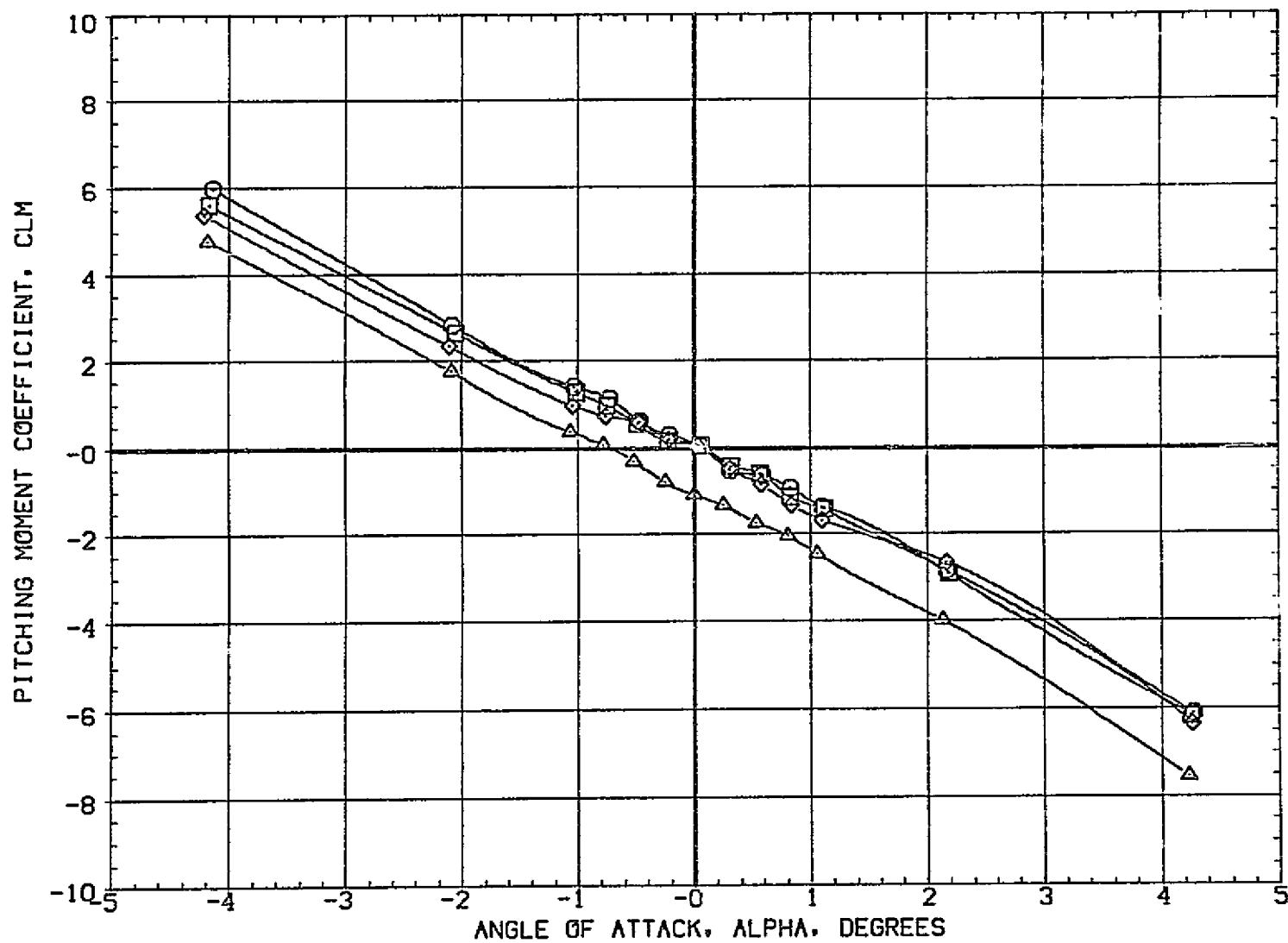
PITCH MODULATION EFFECT

(B)MACH = 0.80

PAGE 19

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) O DCAT ARC 603/604 B2 F4 C  
 (BX1004) X DCAT ARC 603/604 B2 F4 C  
 (BX1005) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 SQ.FT.
.000	40.000	.000	86.000	LREF .3750 FT.
.000	60.000	.000	86.000	BREF .3750 FT.
.000	100.000	.000	86.000	XMRP .0000 FT. YMRP .0000 FT. ZMRP .0000 FT.
				SCALE 125.0000 PERCNT

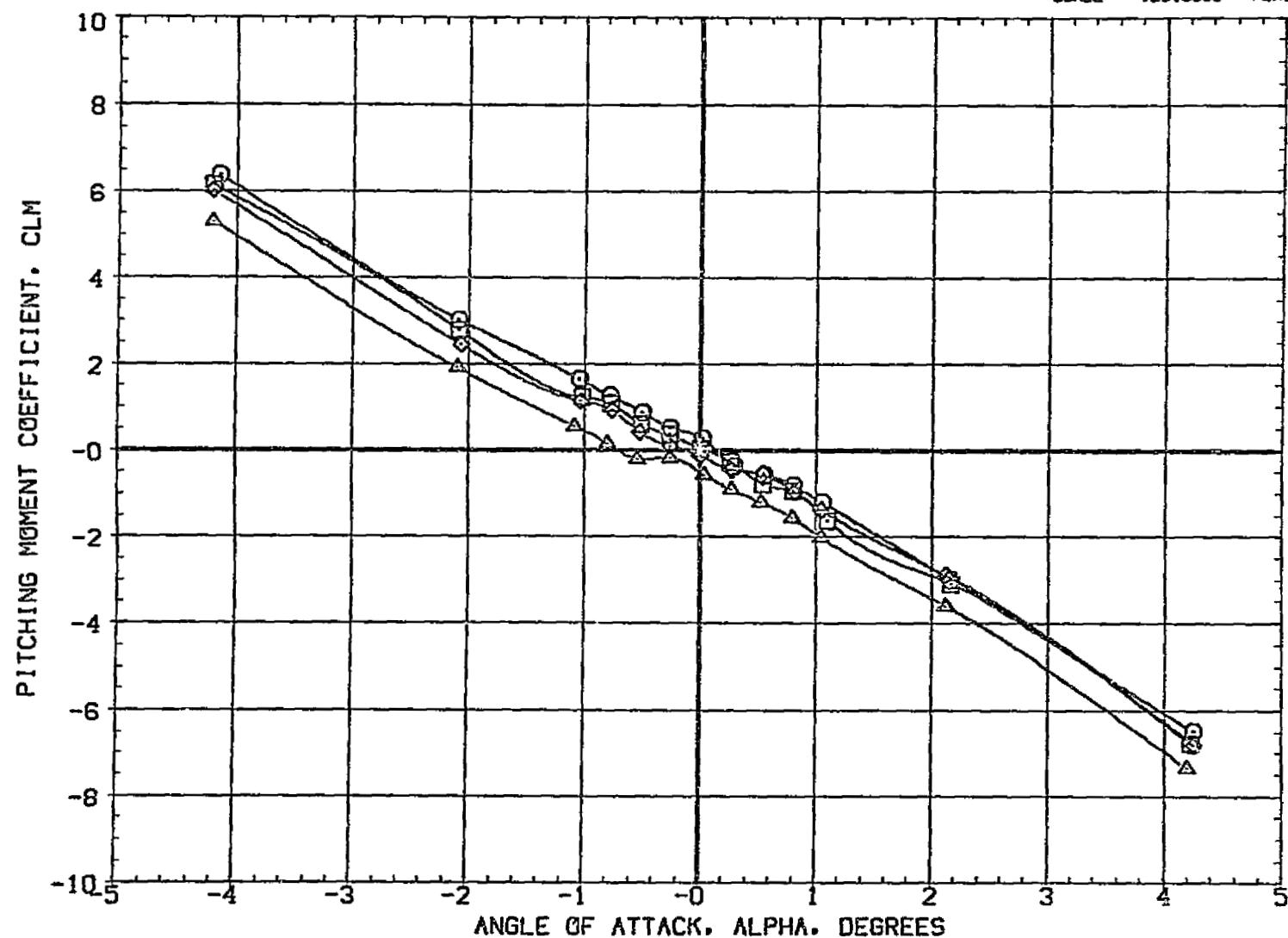


PITCH MODULATION EFFECT

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) □ DCAT ARC 603/604 B2 F4 C  
 (BX1004) X DCAT ARC 603/604 B2 F4 C  
 (BX1005) △ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
:000	:000	:000	86.000	SREF	.1100 SQ.FT.
:000	40.000	:000	86.000	LREF	.3750 FT.
:000	60.000	:000	86.000	BREF	.3750 FT.
:000	100.000	:000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

>54



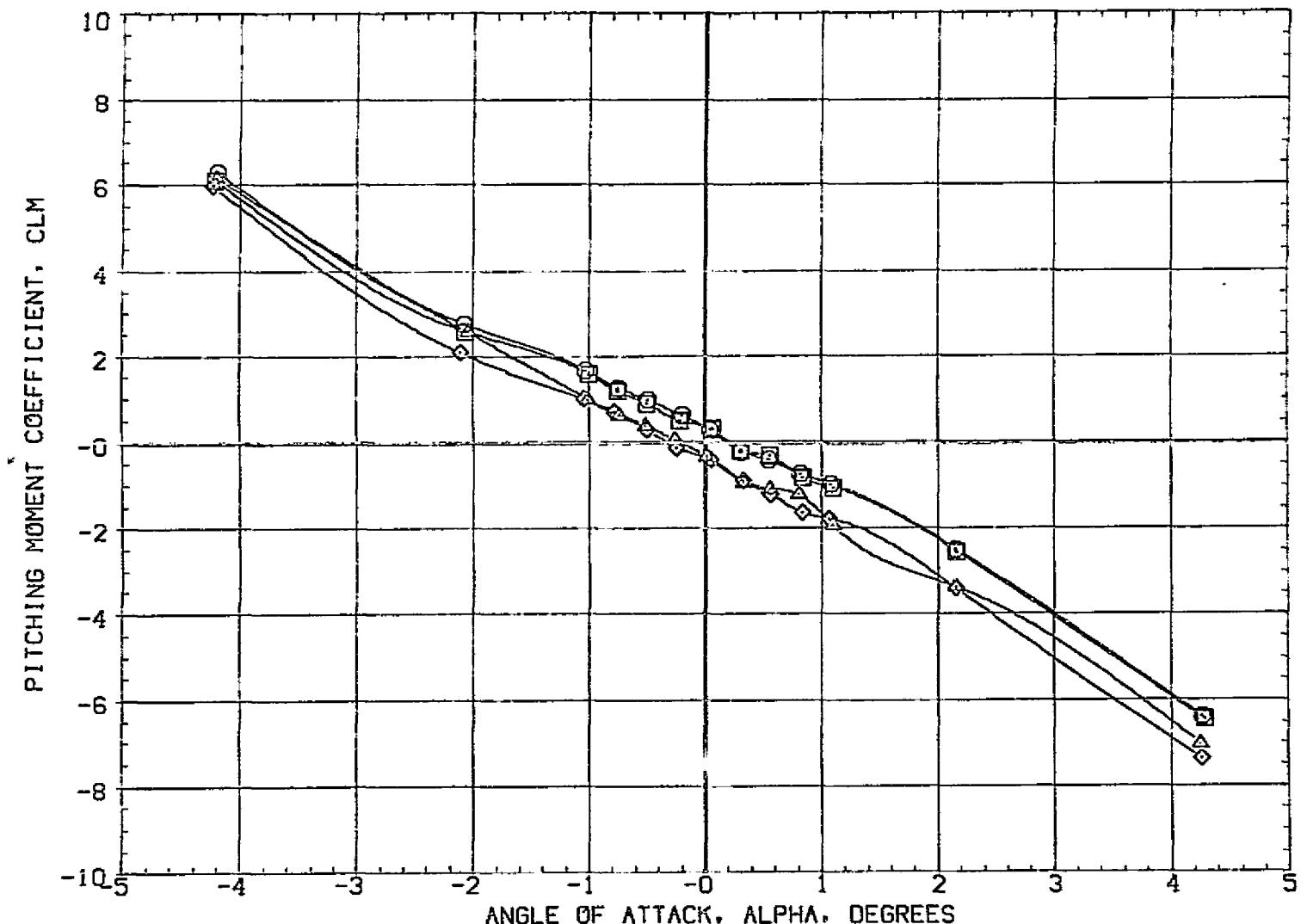
### PITCH MODULATION EFFECT

(D)MACH = 1.00

PAGE 21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	PCW/PF	REFERENCE	INFORMATION
(BX1002)	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000	SREF	.1100 SD.FT.
(BX1003)	DCAT ARC 603/604 B2 F4 C	.000	40.000	.000	86.000	LREF	.3750 FT.
(BX1004)	DCAT ARC 603/604 B2 F4 C	.000	60.000	.000	86.000	BREF	.3750 FT.
(BX1005)	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000	XMRP	.0000 FT.
						YMRP	.0000 FT.
						ZMRP	.0000 FT.
						SCALE	125.0000 PERCNT

>EW



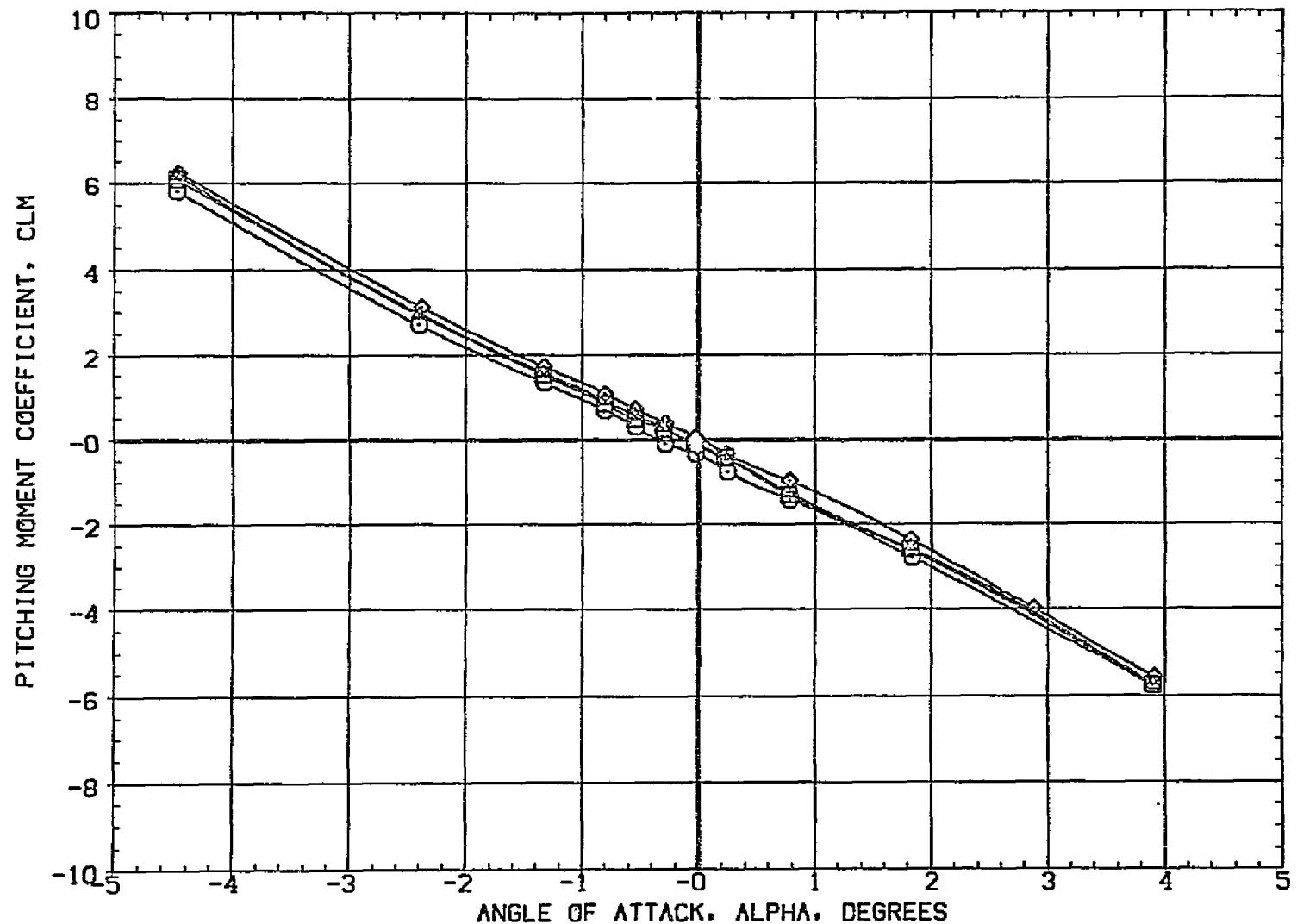
### PITCH MODULATION EFFECT

REFMACH = 1.10

PAGE 22

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	P0/PF	REFERENCE	INFORMATION
(BX1002)	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	85.000	SREF	.1100 SQ.FT.
(BX1003)	DCAT ARC 603/604 B2 F4 C	.000	40.000	.000	85.000	LREF	.3750 FT.
(BX1004)	DCAT ARC 603/604 B2 F4 C	.000	60.000	.000	85.000	BREF	.3750 FT.
(BX1005)	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	85.000	XMRP	.0000 FT.
						YMRP	.0000 FT.
						ZMRP	.0000 FT.
						SCALE	125.0000 PERCENT

→ QF111



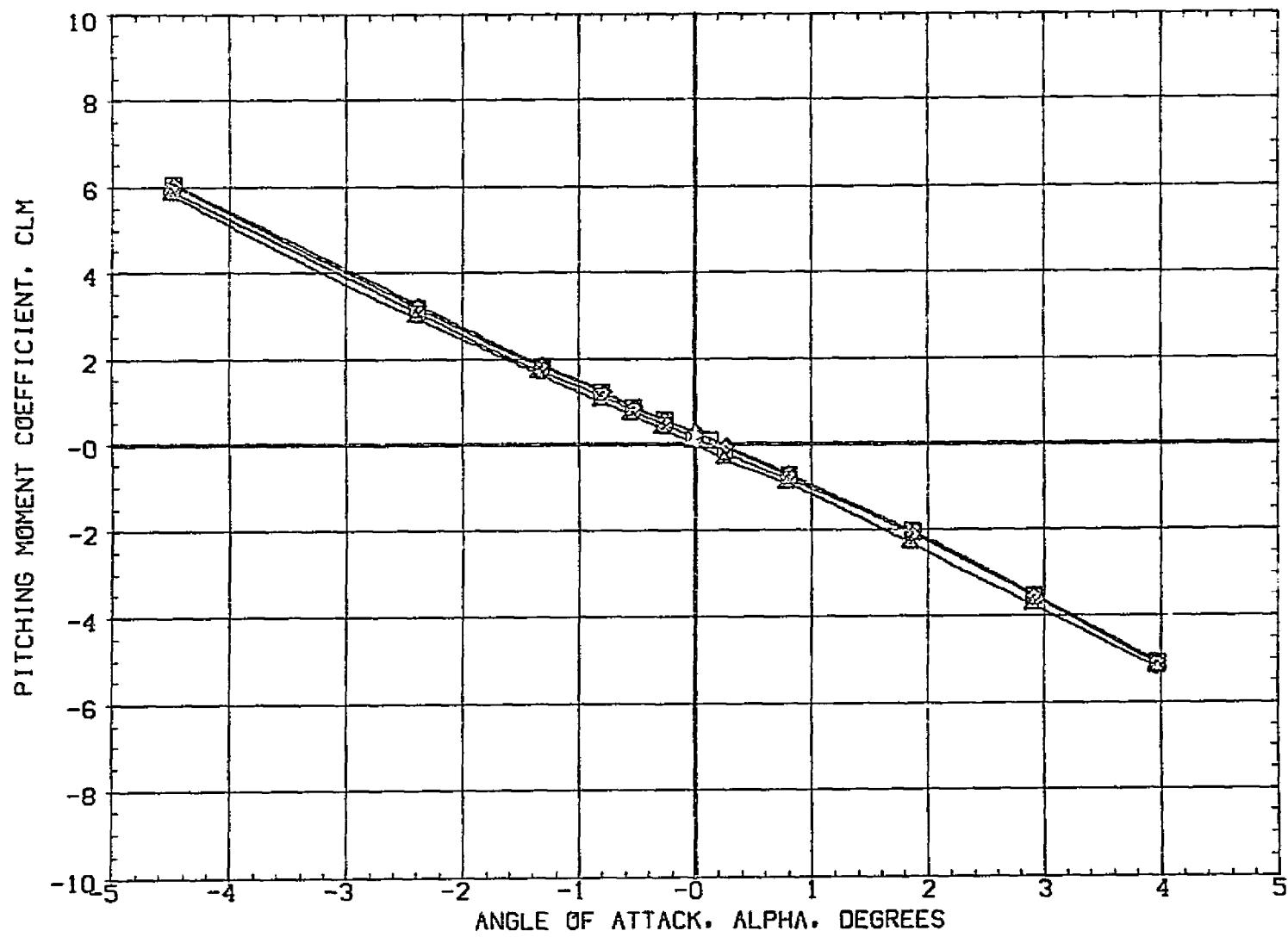
### PITCH MODULATION EFFECT

(FMACH = 1.56)

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>LIV

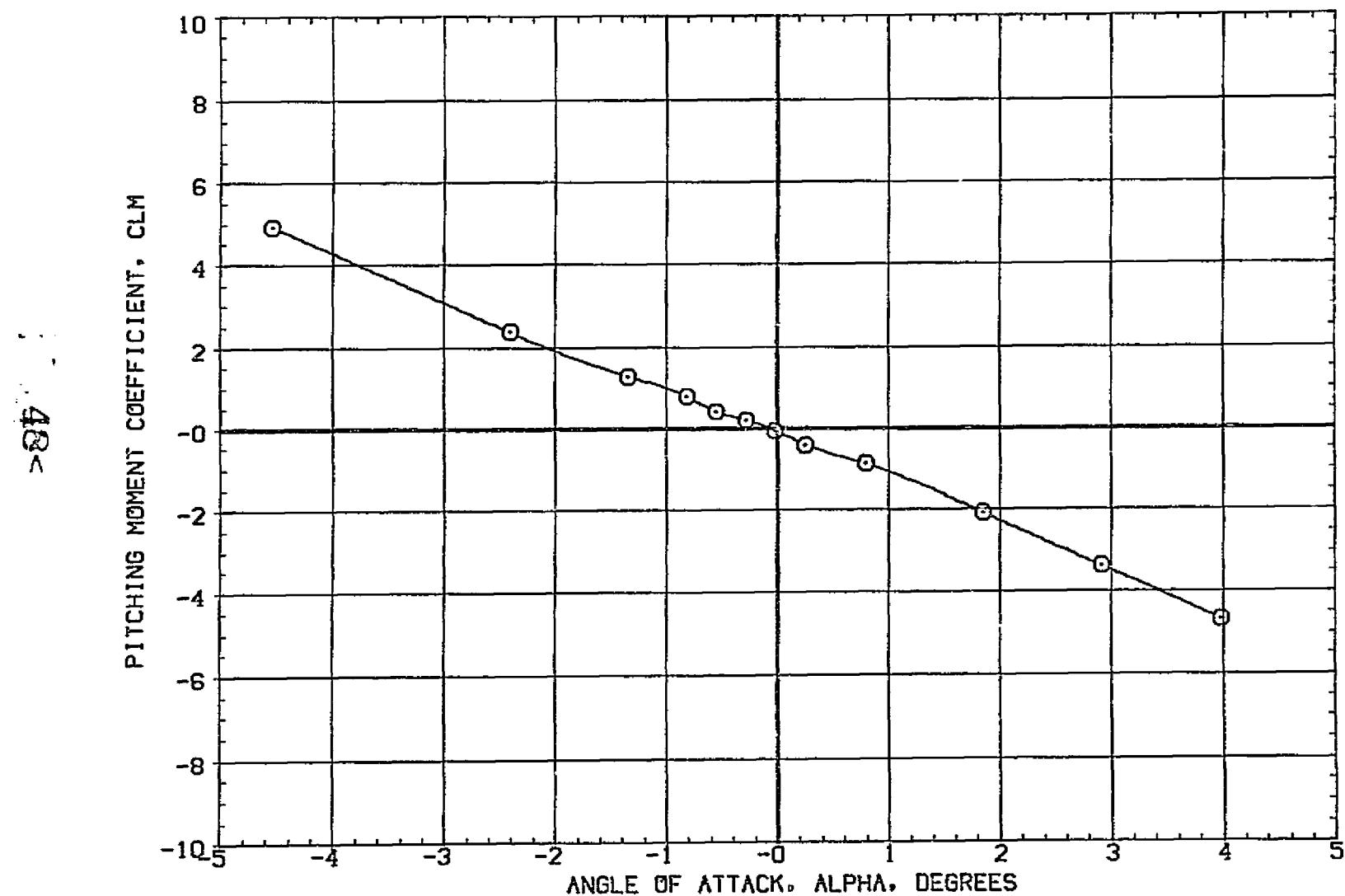
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE INFORMATION
(BX1002)	DCAT ARC 603/604 82 F4 C	.000	.000	.000	86.000	SREF .1100 SD.FT.
(BX1003)	DCAT ARC 603/604 82 F4 C	.000	40.000	.000	86.000	LREF .3750 FT.
(BX1004)	DCAT ARC 603/604 82 F4 C	.000	60.000	.000	86.000	BREF .3750 FT.
(BX1005)	DCAT ARC 603/604 82 F4 C	.000	100.000	.000	86.000	XMRP .0000 FT.
						YMRP .0000 FT.
						ZMRP .0000 FT.
						SCALE 125.0000 PERCNT



PITCH MODULATION EFFECT

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) □ DATA NOT AVAILABLE  
 (BX1004) × DATA NOT AVAILABLE  
 (BX1005) X DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	P0/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 SQ.FT.
.000	40.000	.000	86.000	LREF .3750 FT.
.000	60.000	.000	86.000	BREF .3750 FT.
.000	100.000	.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



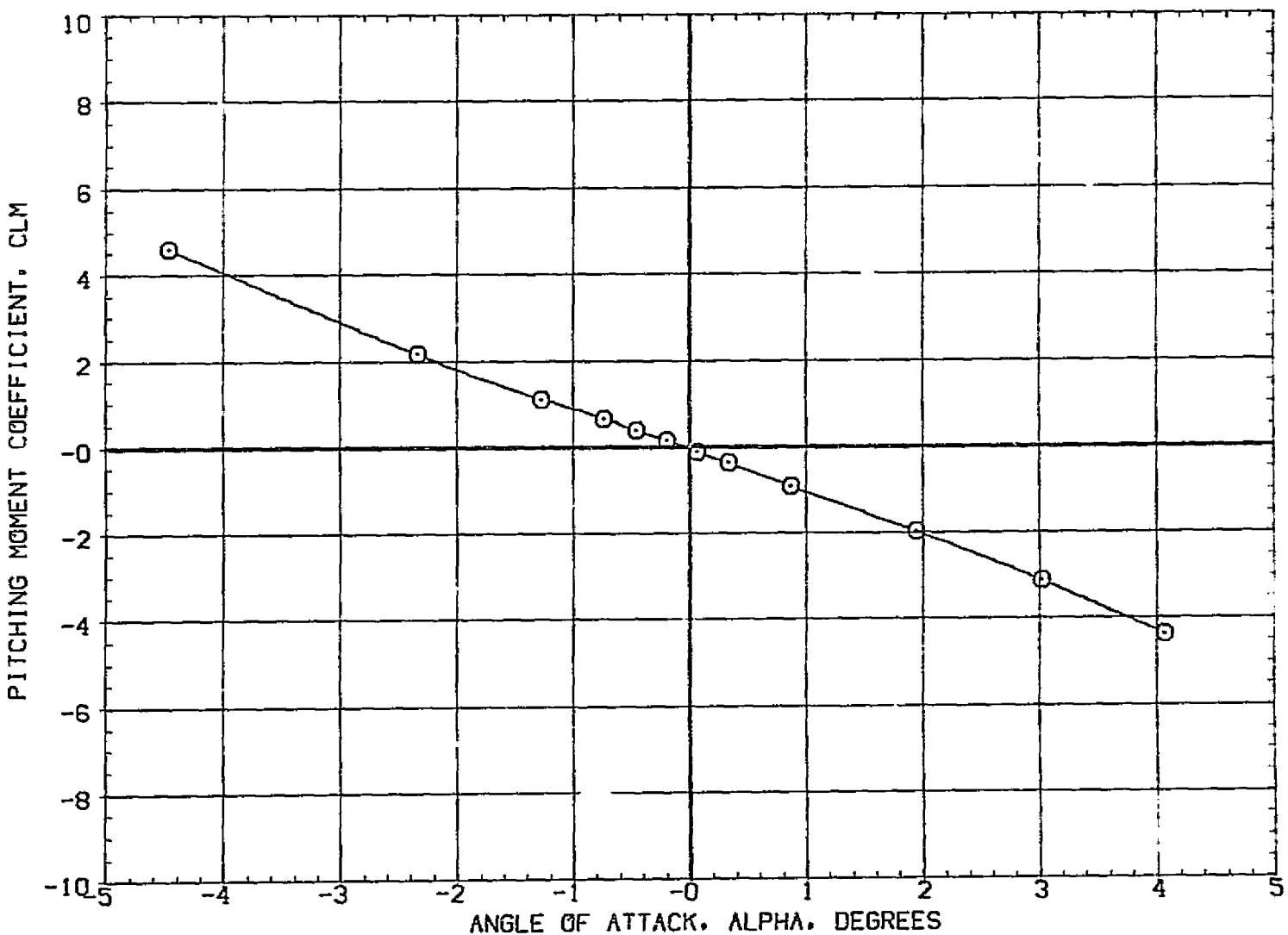
PITCH MODULATION EFFECT

CHOMACH = 2.20

PAGE 25

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) □ DATA NOT AVAILABLE  
 (BX1004) × DATA NOT AVAILABLE  
 (BX1035) Δ DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	PCU/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 SQ.FT.
.000	40.000	.000	86.000	LREF .3750 FT.
.000	60.000	.000	86.000	BREF .3750 FT.
.000	100.000	.000	86.000	XMRP .0000 FT. YMRP .0000 FT. ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



PITCH MODULATION EFFECT

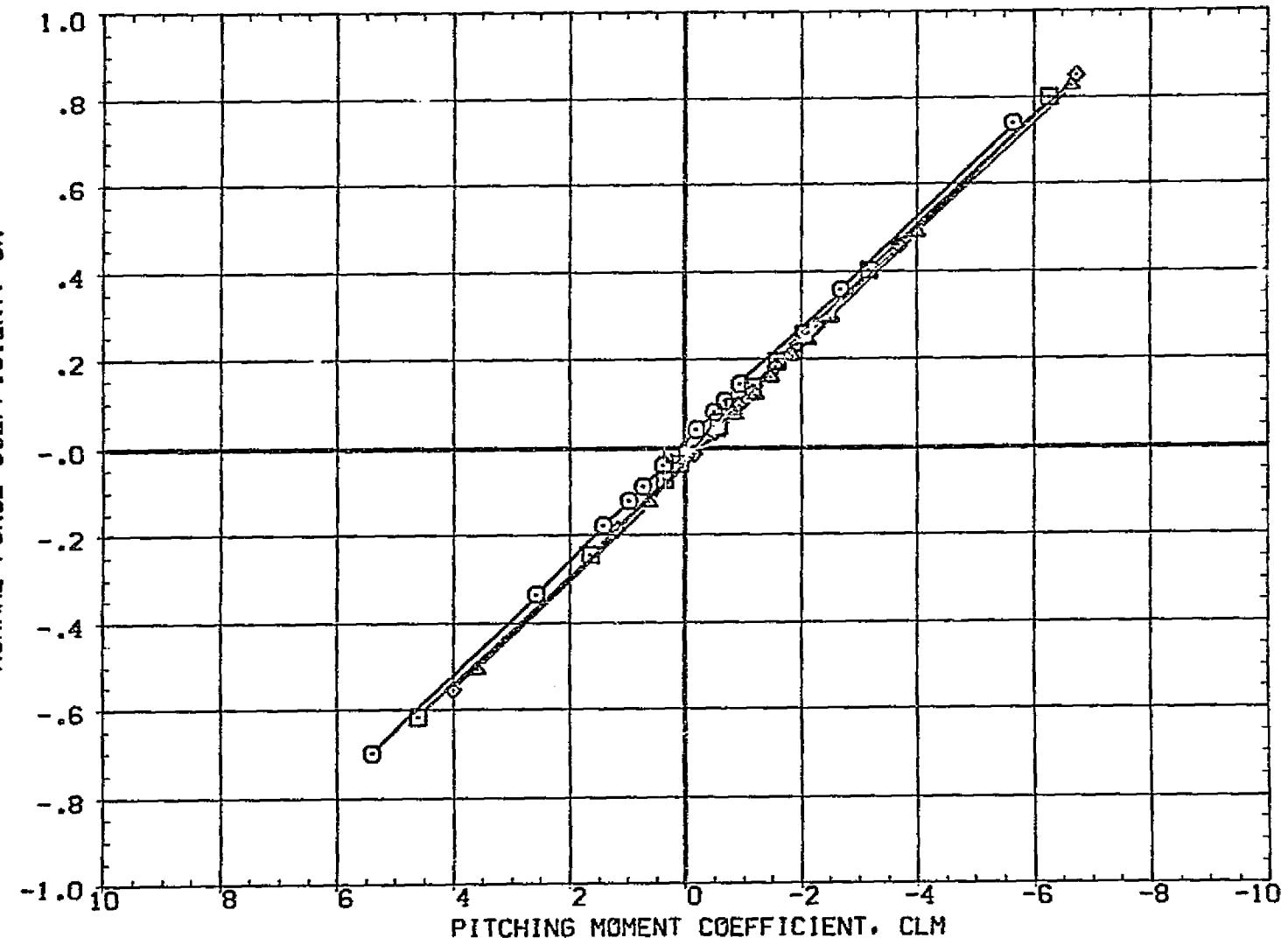
(1) MACH = 2.50

PAGE 26

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) □ DCAT ARC 603/604 B2 F4 C  
 (BX1004) ◇ DCAT ARC 603/604 B2 F4 C  
 (BX1005) Δ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.100 SO.FT.
.000	40.000	.000	86.000	LREF	.3750 FT.
.000	80.000	.000	86.000	BREF	.3750 FT.
.000	100.000	.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT

>0 $\Omega$



PITCH MODULATION EFFECT

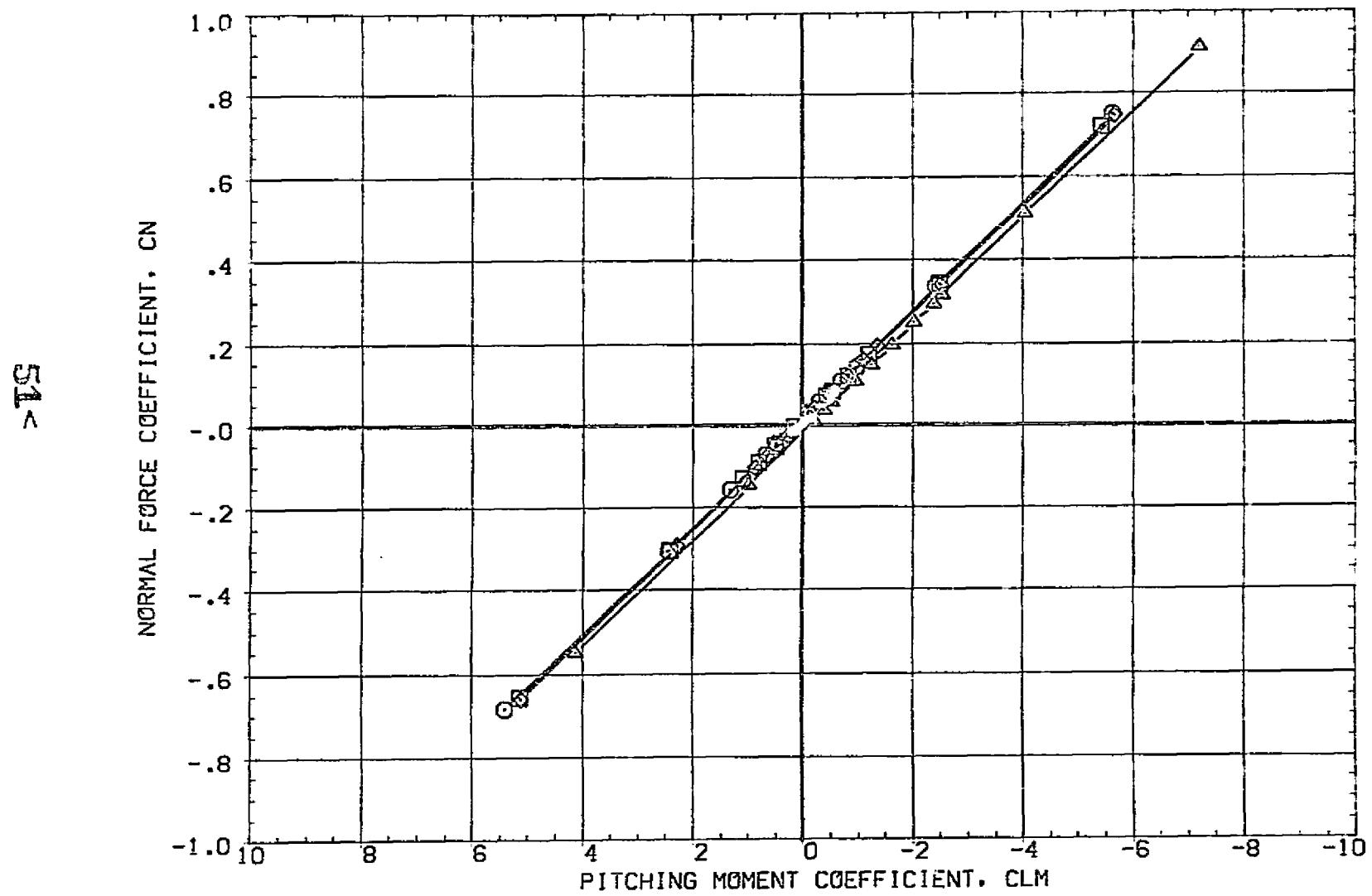
(ADMACH = 0.64)

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DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BX1002)	O	DCAT ARC 603/604	B2 F4 C
(BX1003)	□	DCAT ARC 603/604	B2 F4 C
(BX1004)	◇	DCAT ARC 603/604	B2 F4 C
(BX1005)	△	DCAT ARC 603/604	B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	.000	86.000	LREF	.3750 FT.
.000	60.000	.000	86.000	BREF	.3750 FT.
.000	100.000	.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT

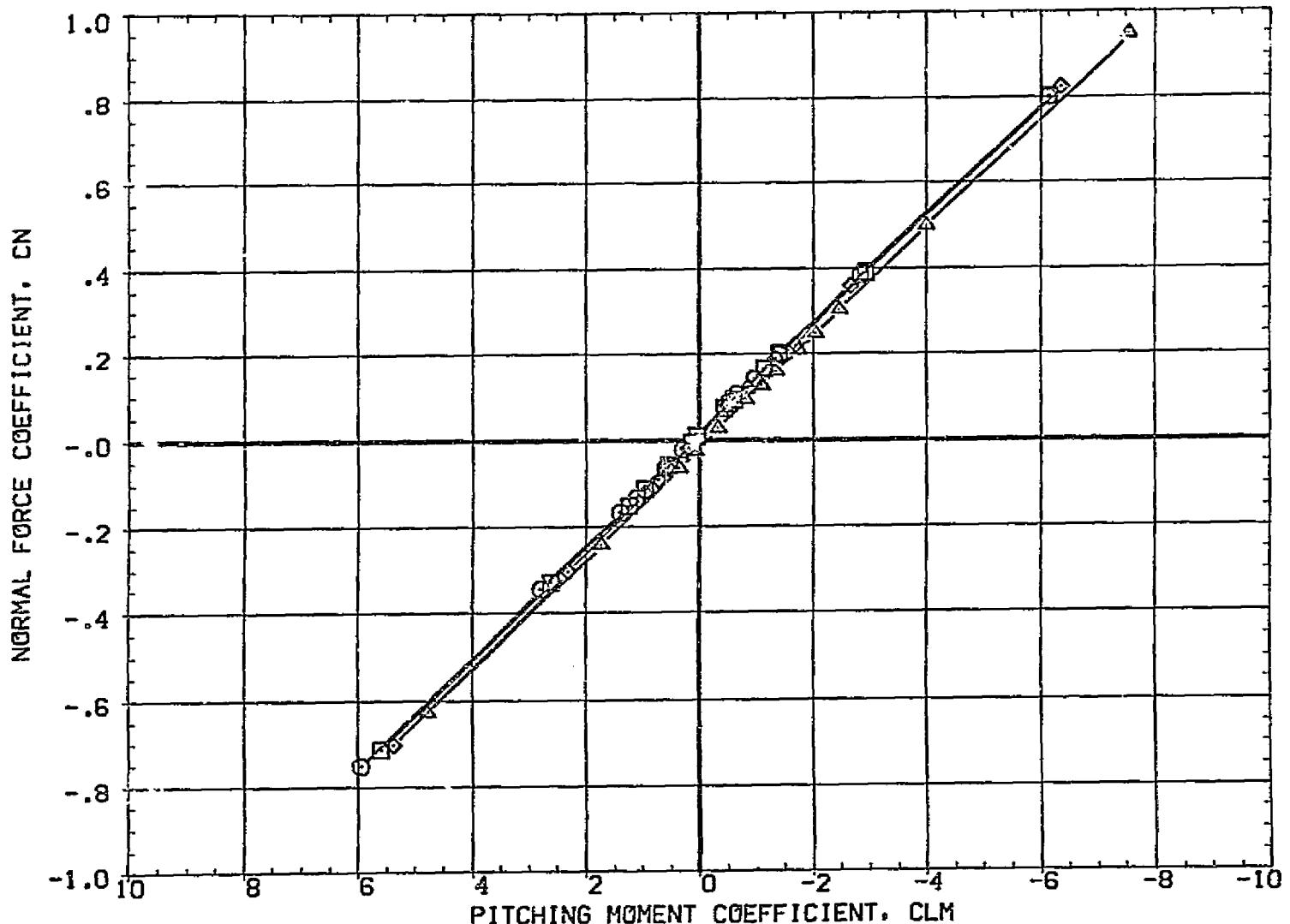


### PITCH MODULATION EFFECT

(B)MACH = 0.80

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 LBX1002 O DCAT ARC 603/604 B2 F4 C  
 LBX1003 O DCAT ARC 603/604 B2 F4 C  
 LBX1004 X DCAT ARC 603/604 B2 F4 C  
 LBX1005 D DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	.000	66.000	SREF	.1100 SQ.FT.
.000	40.000	.000	66.000	LREF	.3750 FT.
.000	60.000	.000	66.000	BREF	.3750 FT.
.000	100.000	.000	66.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

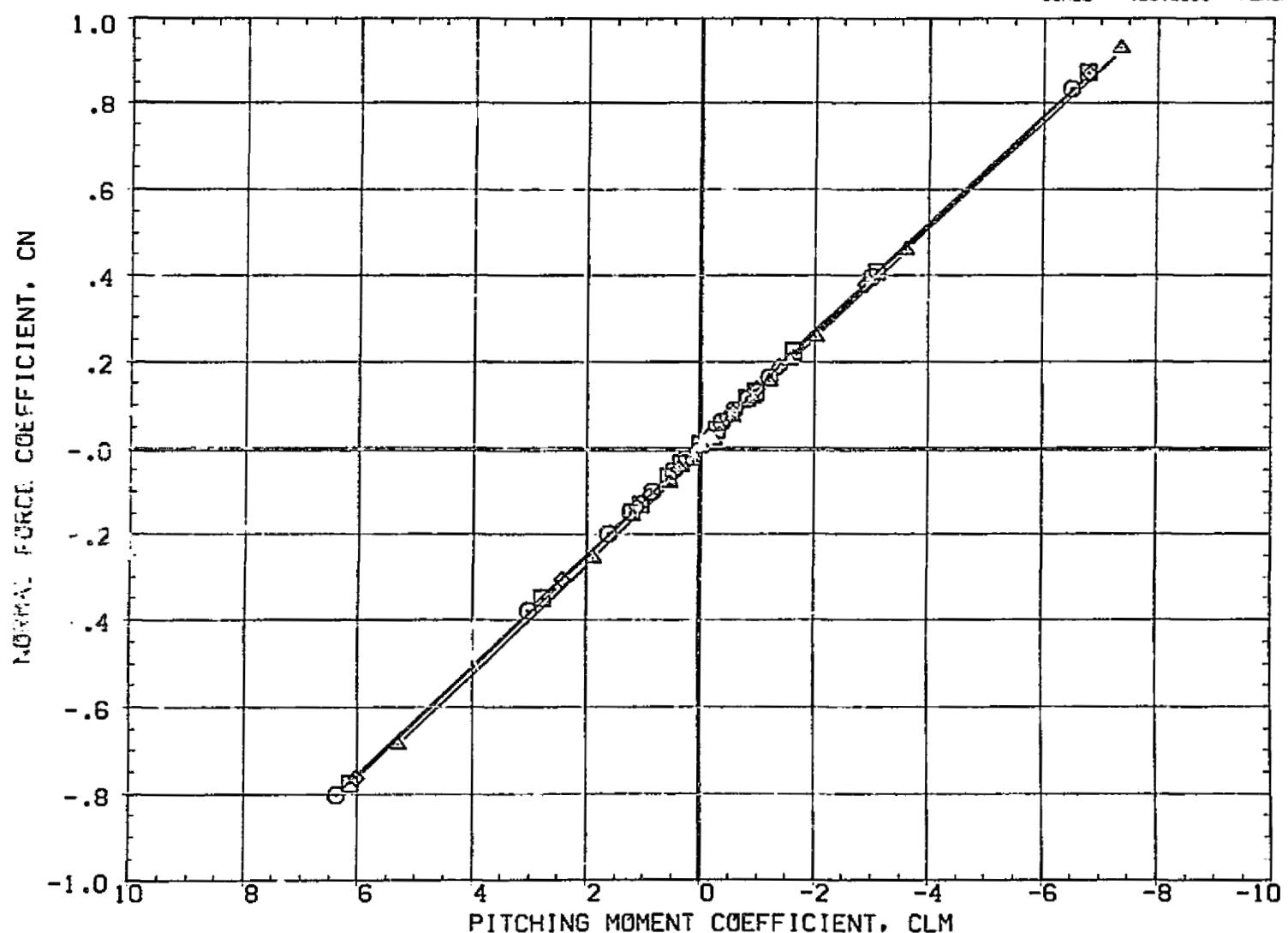


### PITCH MODULATION EFFECT

(C)MACH = 0.95

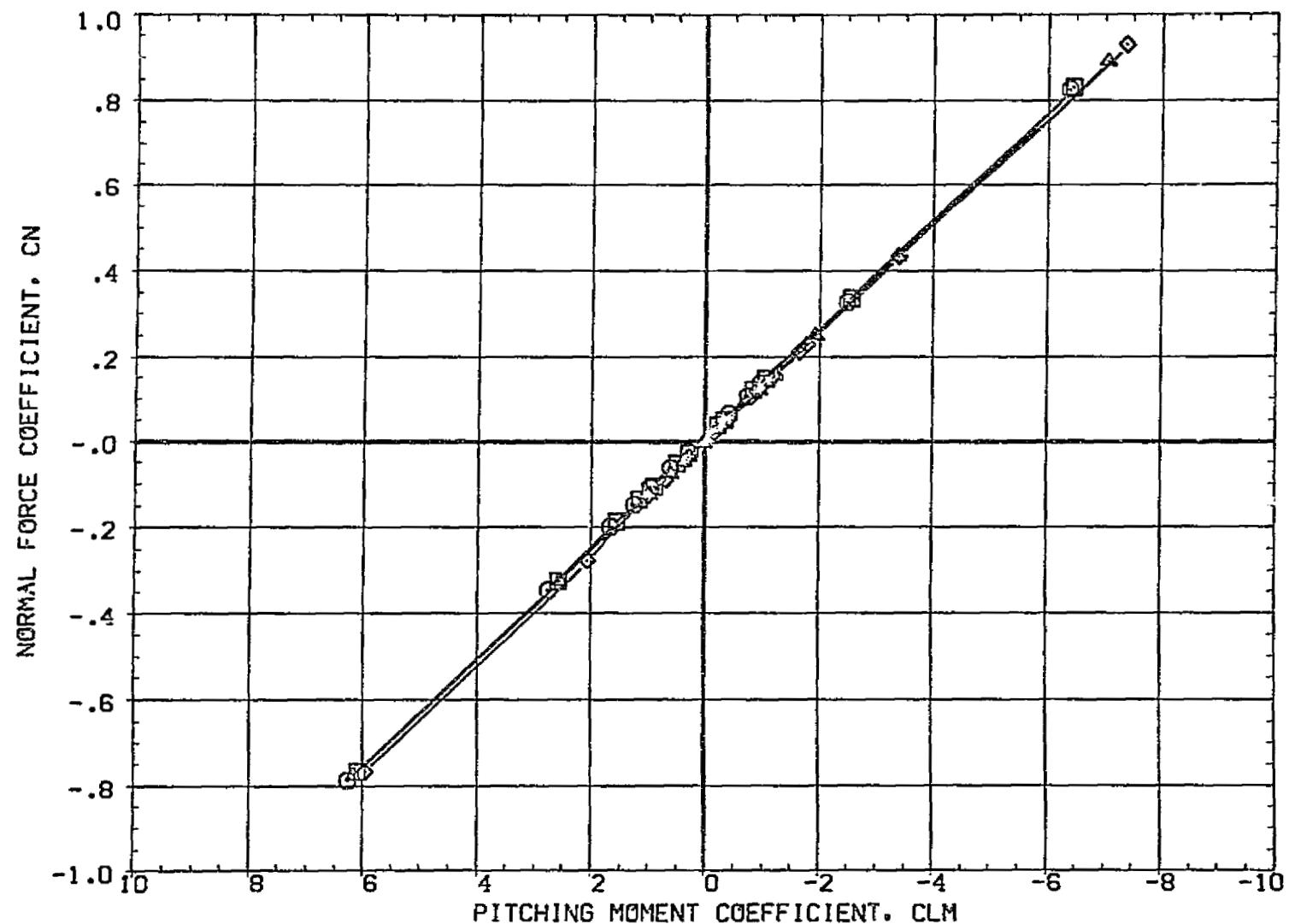
DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) O DCAT ARC 603/604 B2 F4 C  
 (BX1004) X DCAT ARC 603/604 B2 F4 C  
 (BX1005) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 50.FT.
.000	40.000	.000	86.000	LREF	.3750 FT.
.000	60.000	.000	86.000	BREF	.3750 FT.
.000	100.000	.000	86.000	XMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



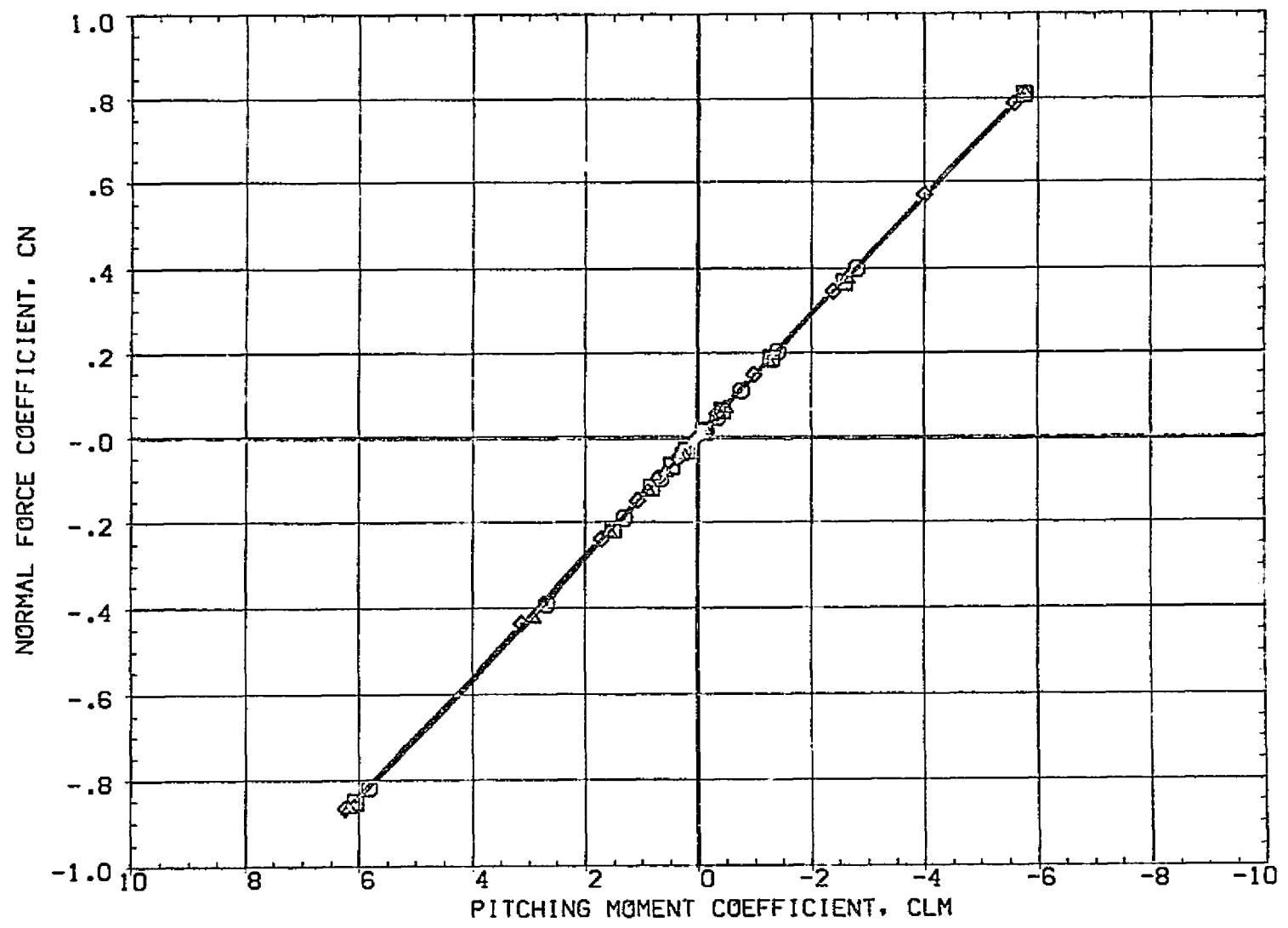
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
(BX1002)	DCAT ARC 603/604 82 F4 C	.000	.000	.000	86.000	SREF	.1100 SQ.FT.
(BX1003)	DCAT ARC 603/604 82 F4 C	.000	40.000	.000	86.000	LREF	.3750 FT.
(BX1004)	DCAT ARC 603/604 82 F4 C	.000	60.000	.000	86.000	BREF	.3750 FT.
(BX1005)	DCAT ARC 603/604 82 F4 C	.000	100.000	.000	86.000	XMRP	.0000 FT.
						YMRP	.0000 FT.
						ZMRP	.0000 FT.
						SCALE	125.0000 PERCENT

>DS.



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) O DCAT ARC 603/604 B2 F4 C  
 (BX1004) X DCAT ARC 603/604 B2 F4 C  
 (BX1005) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 SQ.FT.
.000	40.000	.000	86.000	LREF .3750 FT.
.000	60.000	.000	86.000	BREF .3750 FT.
.000	100.000	.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT

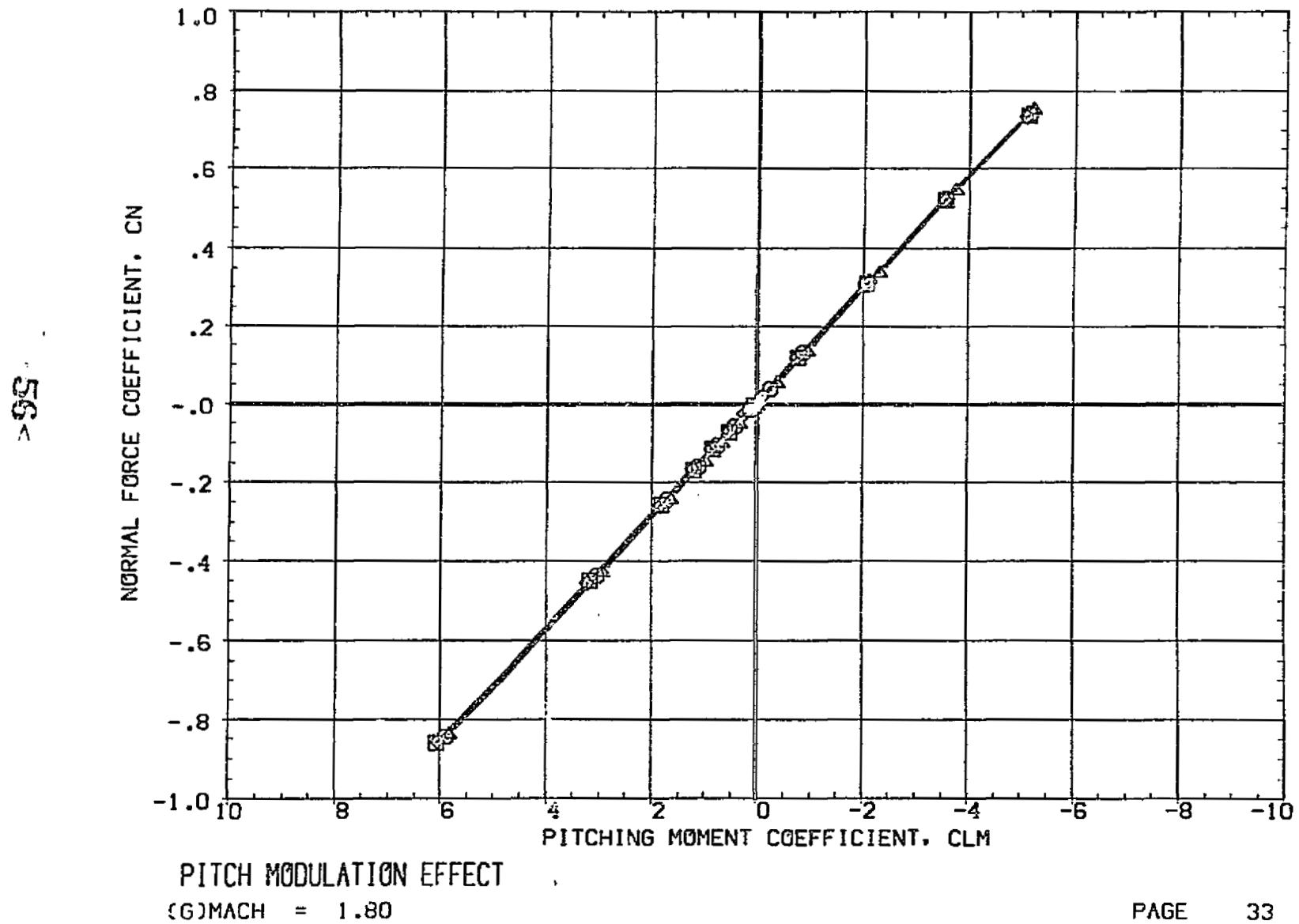


### PITCH MODULATION EFFECT

REFMACH = 1.56

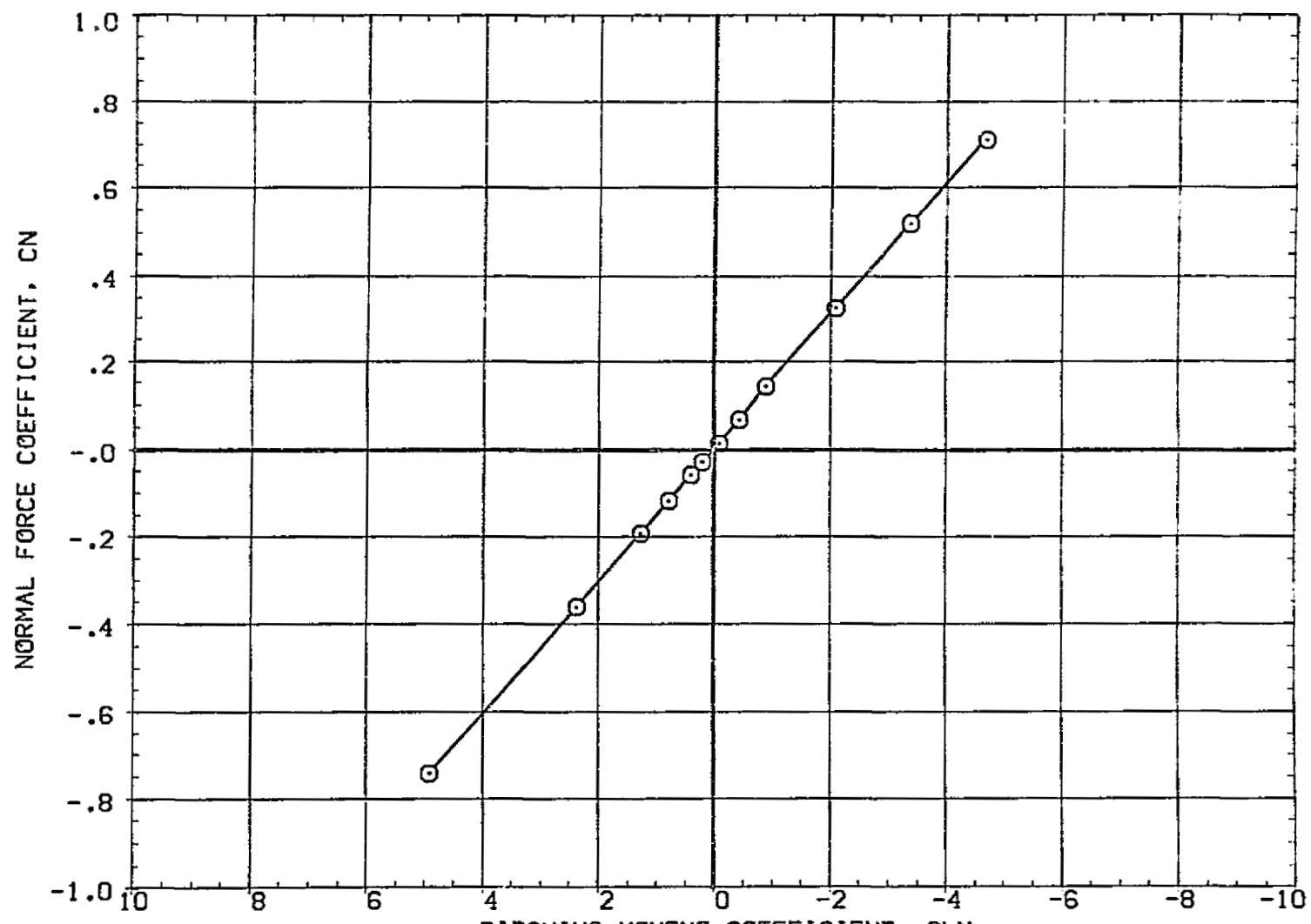
PAGE 32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
(BX1002)	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000	SREF	.1100 SQ.FT.
(BX1003)	DCAT ARC 603/604 B2 F4 C	.000	40.000	.000	86.000	LREF	.3750 FT.
(BX1004)	DCAT ARC 603/604 B2 F4 C	.000	60.000	.000	86.000	BREF	.3750 FT.
(BX1005)	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000	XMRP	.0000 FT.
						YMRP	.0000 FT.
						ZMRP	.0000 FT.
						SCALE	125.0000 PERCNT



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) DCAT ARC 603/604 B2 F4 C  
 (BX1003) DATA NOT AVAILABLE  
 (BX1004) DATA NOT AVAILABLE  
 (BX1005) DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	.000	66.000	SREF .1100 SQ.FT.
.000	40.000	.000	66.000	LREF .3750 FT.
.000	60.000	.000	66.000	BREF .3750 FT.
.000	100.000	.000	66.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCNT



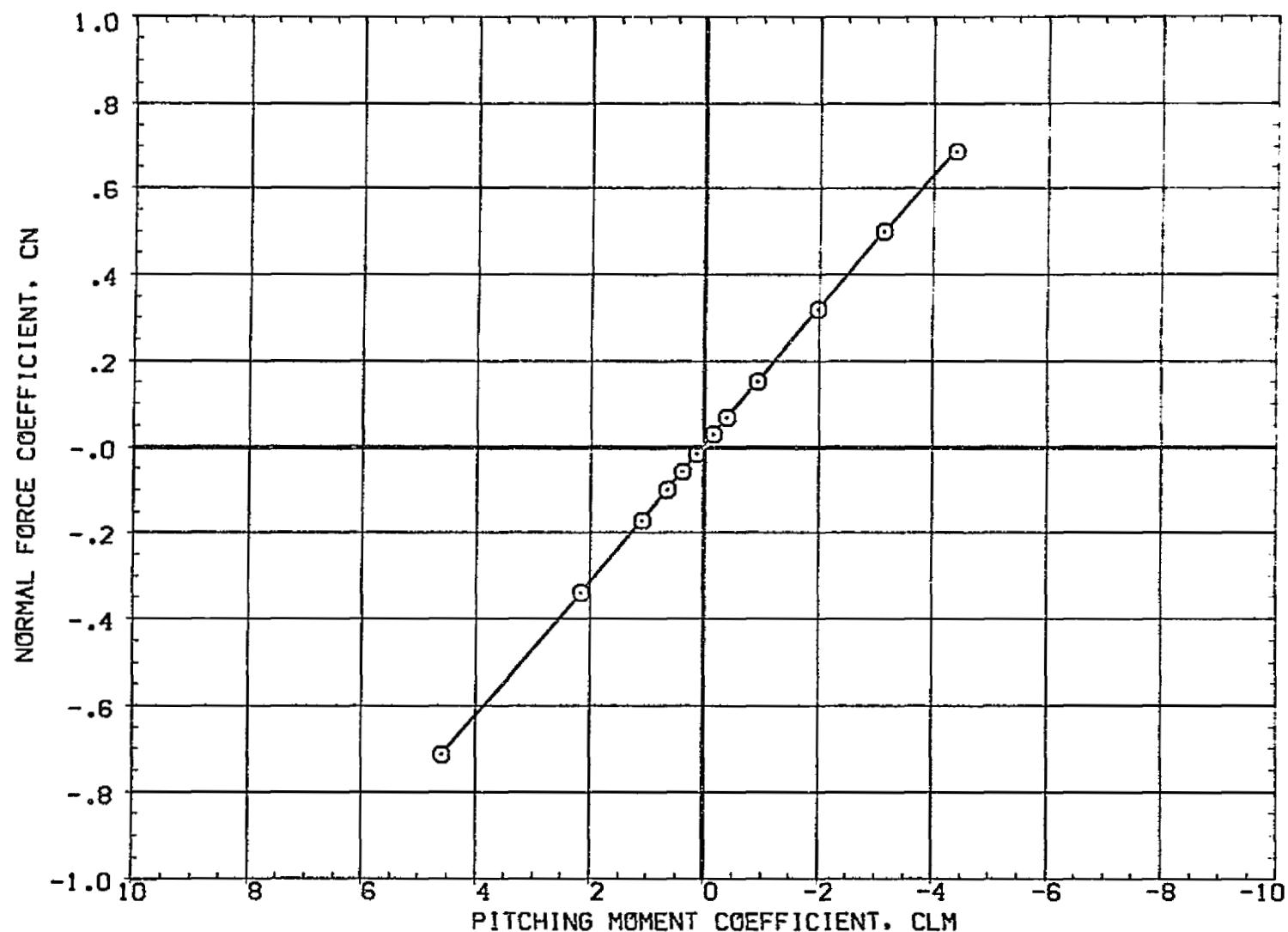
### PITCH MODULATION EFFECT

EDIMACU - 2 20

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) X DATA NOT AVAILABLE  
 (BX1004) X DATA NOT AVAILABLE  
 (BX1005) X DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	P0V/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	.000	86.000	LREF	.3750 FT.
.000	60.000	.000	86.000	BREF	.3750 FT.
.000	100.000	.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



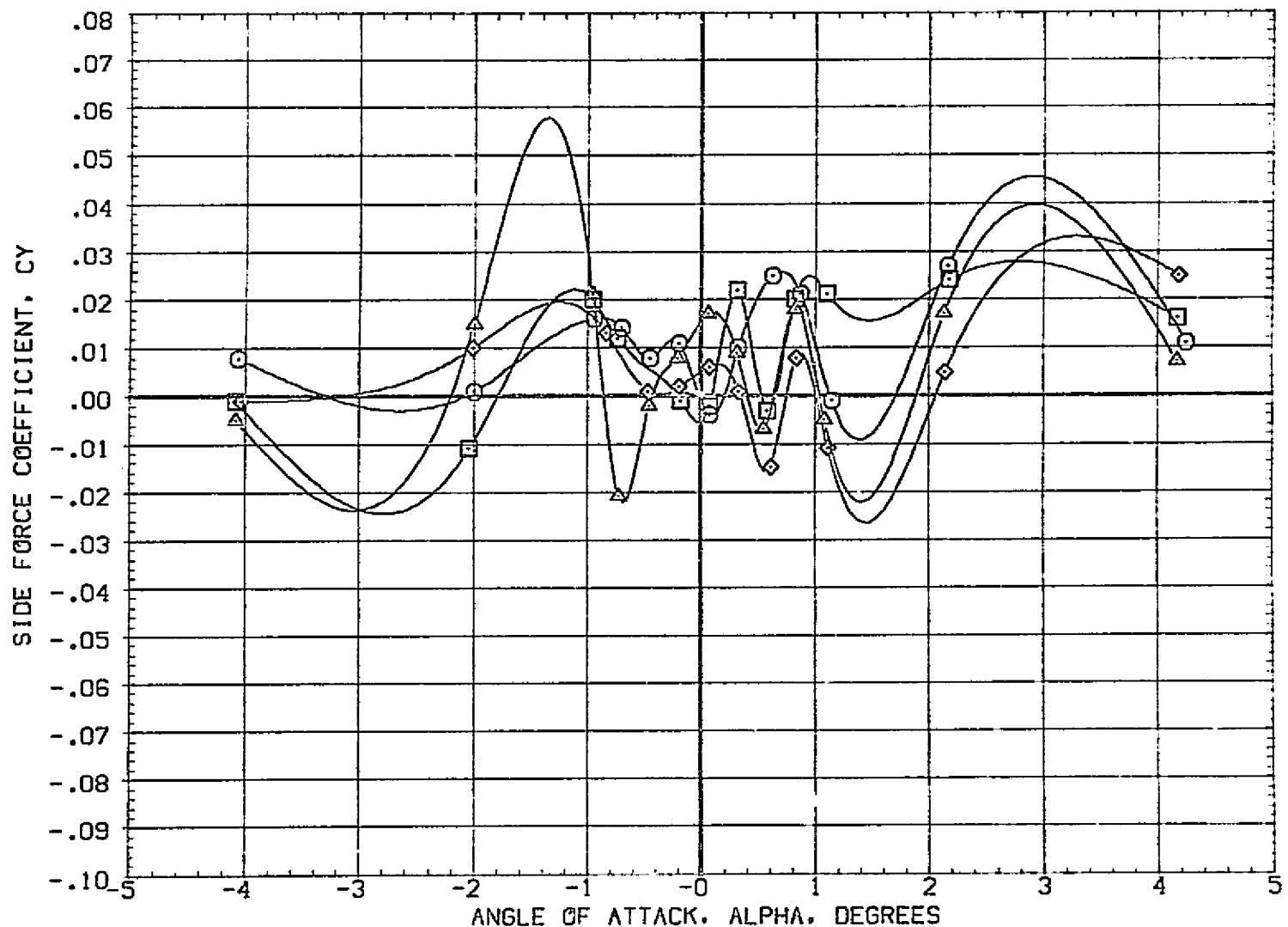
PITCH MODULATION EFFECT

(1) MACH = 2.50

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) □ DCAT ARC 603/604 B2 F4 C  
 (BX1004) X DCAT ARC 603/604 B2 F4 C  
 (BX1005) Δ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	.000	86.000	LREF	.3750 FT.
.000	60.000	.000	86.000	BREF	.3750 FT.
.000	100.000	.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



PITCH MODULATION EFFECT

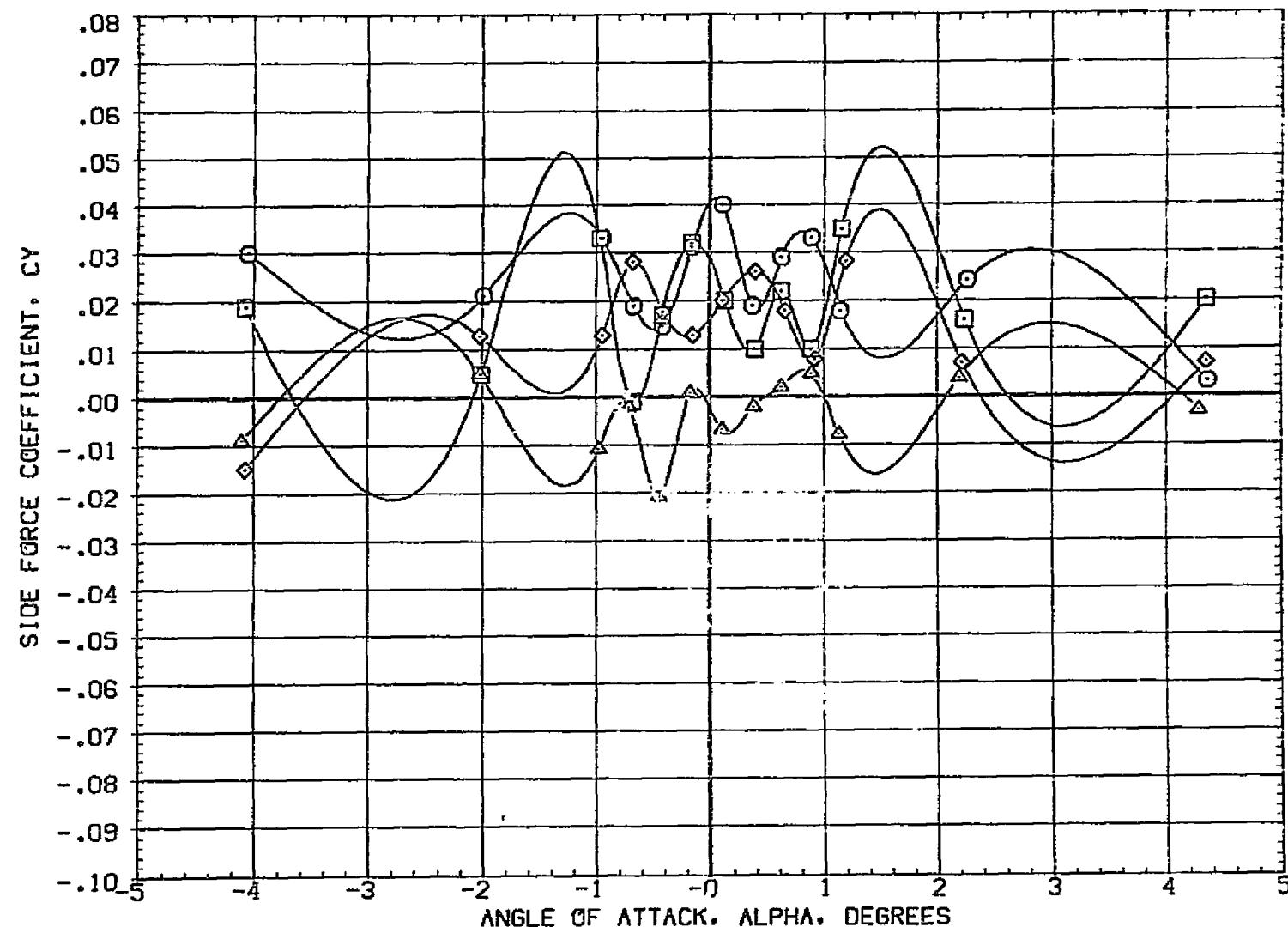
125.0000 0.0000

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>65

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) □ DCAT ARC 603/604 B2 F4 C  
 (BX1004) Δ DCAT ARC 603/604 B2 F4 C  
 (BX1005) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 SQ.FT.
.000	40.000	.000	86.000	LREF .3750 FT.
.000	60.000	.000	86.000	BREF .3750 FT.
.000	100.000	.000	86.000	XMRP .0000 FT. YMRP .0000 FT. ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



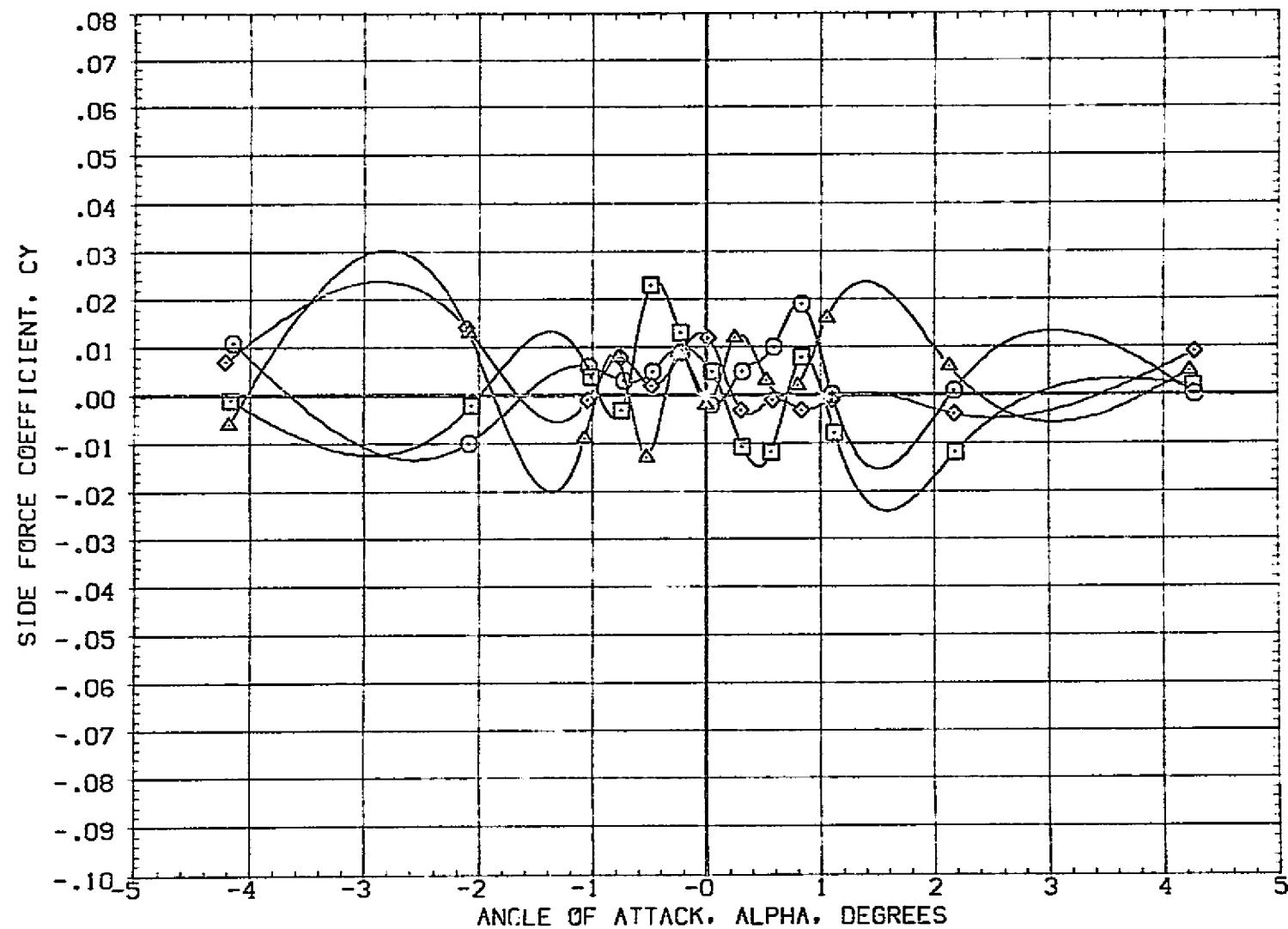
PITCH MODULATION EFFECT

(B)MACH = 0.80

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) □ DCAT ARC 603/604 B2 F4 C  
 (BX1004) X DCAT ARC 603/604 B2 F4 C  
 (BX1005) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PCY/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	.000	86.000	LREF	.3750 FT.
.000	60.000	.000	86.000	BREF	.3750 FT.
.000	100.000	.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



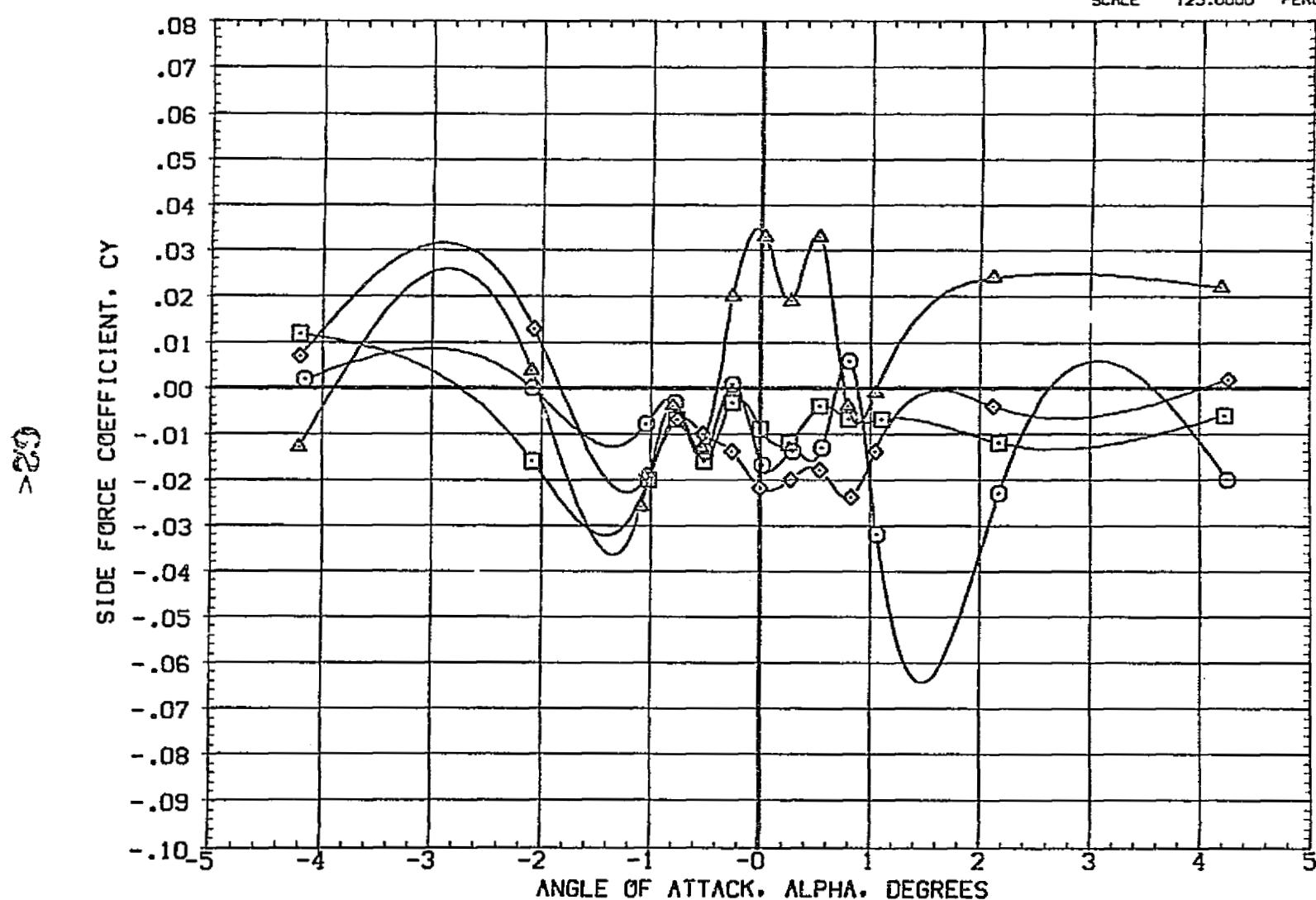
### PITCH MODULATION EFFECT

SCALING = 0.25

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) □ DCAT ARC 603/604 B2 F4 C  
 (BX1004) X DCAT ARC 603/604 B2 F4 C  
 (BX1005) Δ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0V/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	.000	86.000	LREF	.3750 FT.
.000	60.000	.000	86.000	BREF	.3750 FT.
.000	100.000	.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



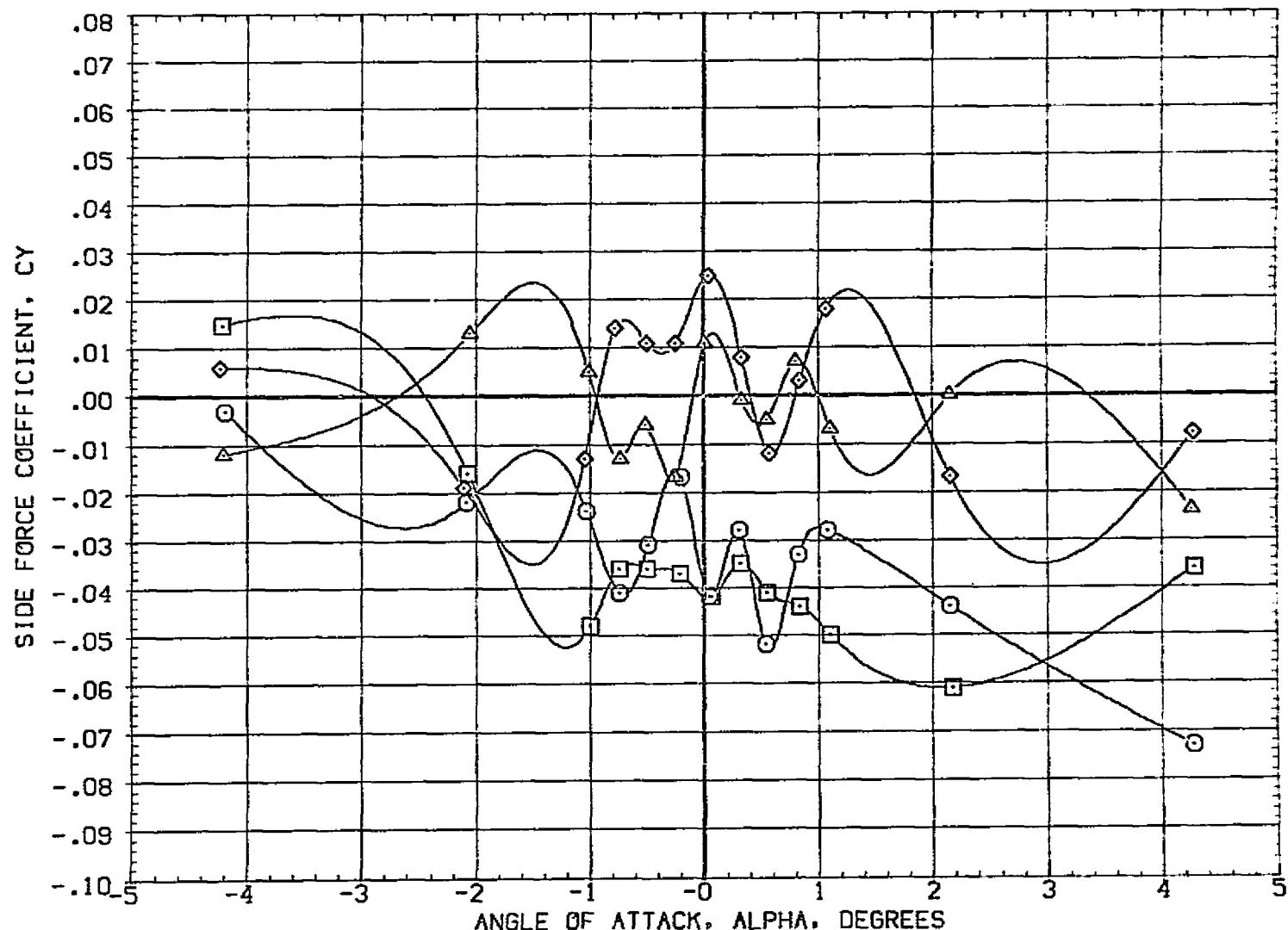
### PITCH MODULATION EFFECT

(D)MACH = 1.00

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) □ DCAT ARC 603/604 B2 F4 C  
 (BX1004) Δ DCAT ARC 603/604 B2 F4 C  
 (BX1005) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PGM/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	.000	86.000	LREF	.3750 FT.
.000	60.000	.000	86.000	GREF	.3750 FT.
.000	100.000	.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

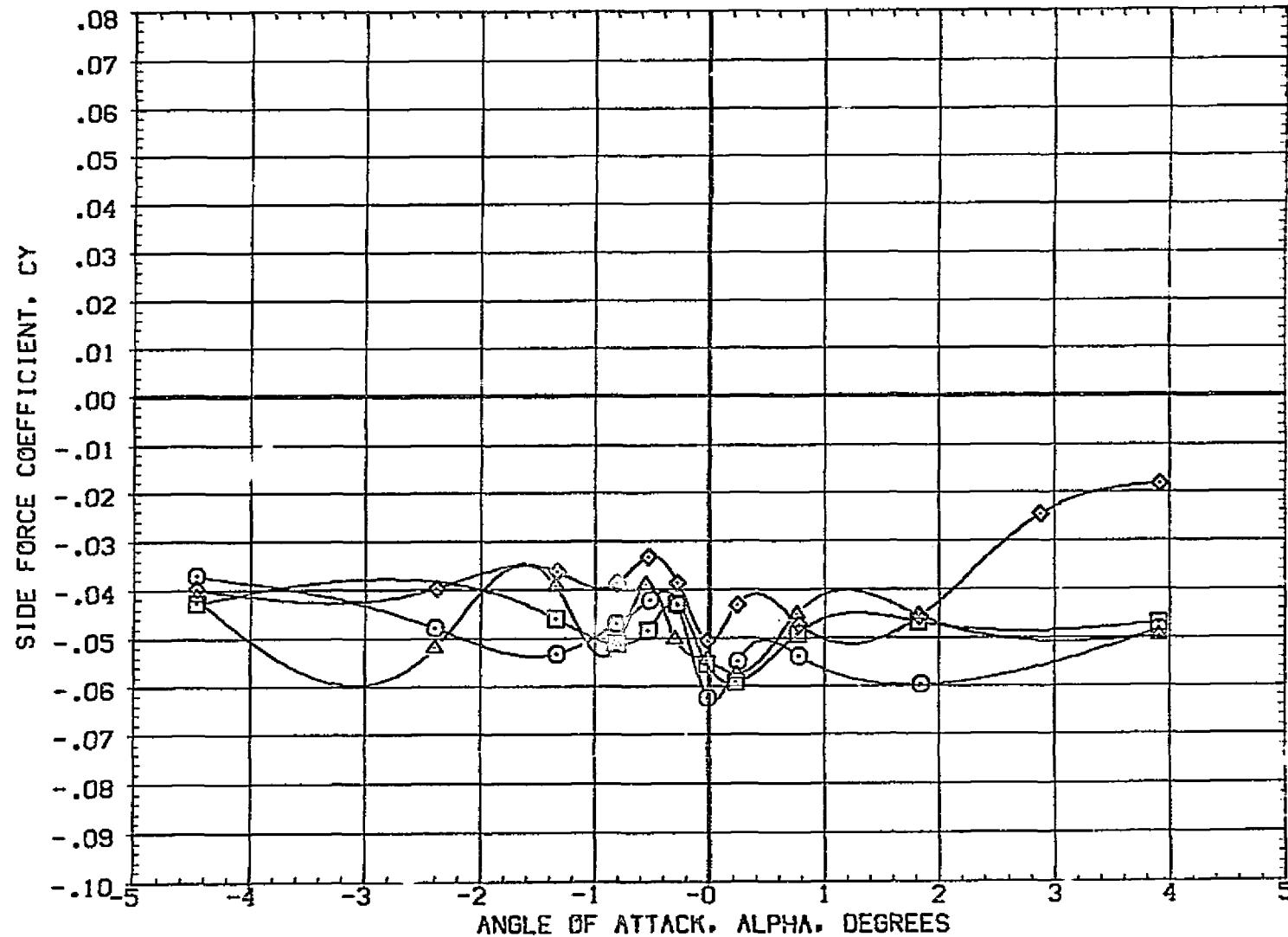


### PITCH MODULATION EFFECT

(E)MACH = 1.10

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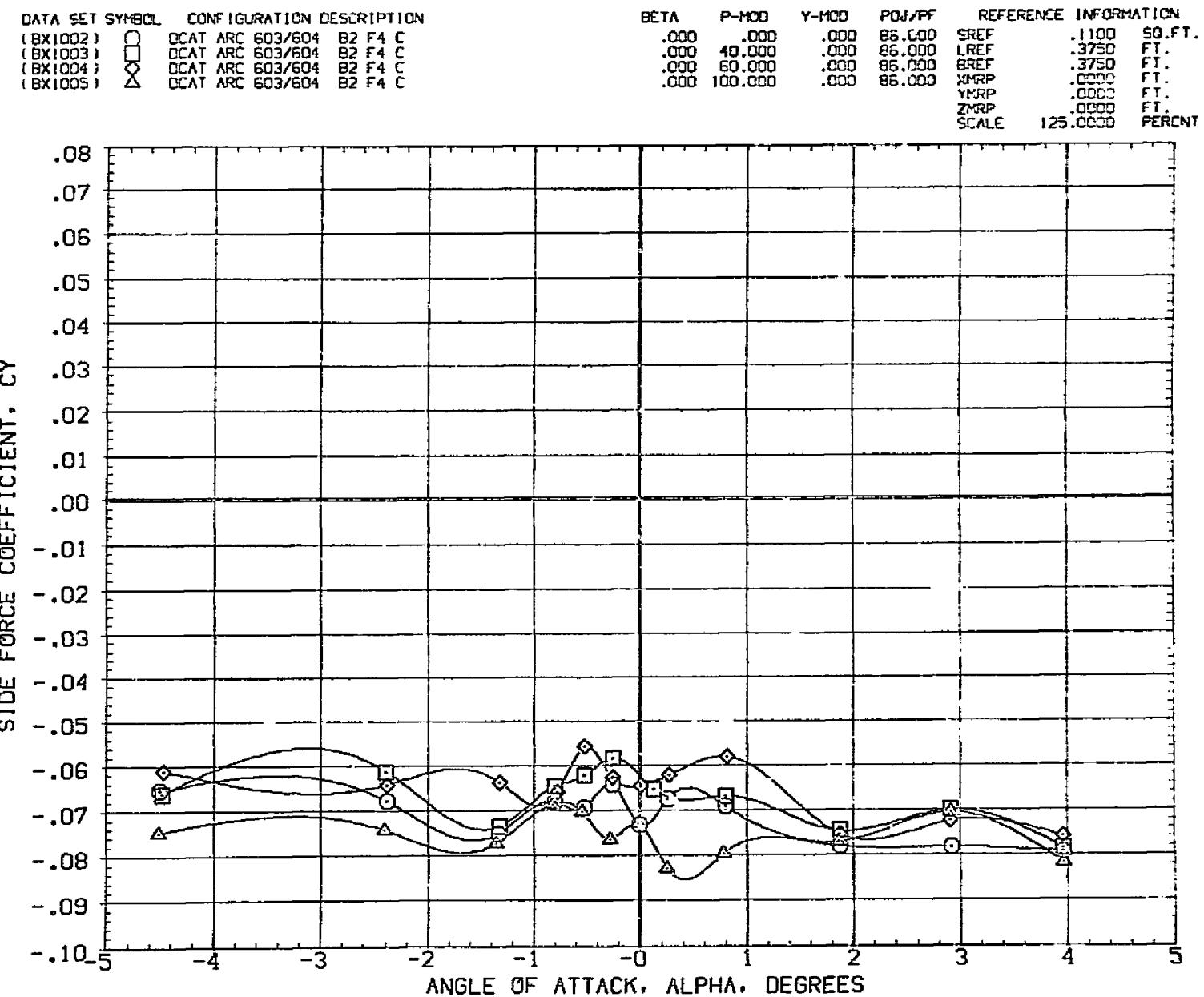
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-HOD	Y-MOD	PQJ/PF	REFERENCE	INFORMATION
(BX1002)	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000	SREF	.1100 SQ.FT.
(BX1003)	DCAT ARC 603/604 B2 F4 C	.000	40.000	.000	86.000	LREF	.3750 FT.
(BX1004)	DCAT ARC 603/604 B2 F4 C	.000	60.000	.000	86.000	SREF	.3750 FT.
(BX1005)	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000	XMRP	.0000 FT.
						YMRP	.0000 FT.
						ZMRP	.0000 FT.
						SCALE	125.0000 PERCENT



### PITCH MODULATION EFFECT

(F)MACH = 1.56

GT  
A

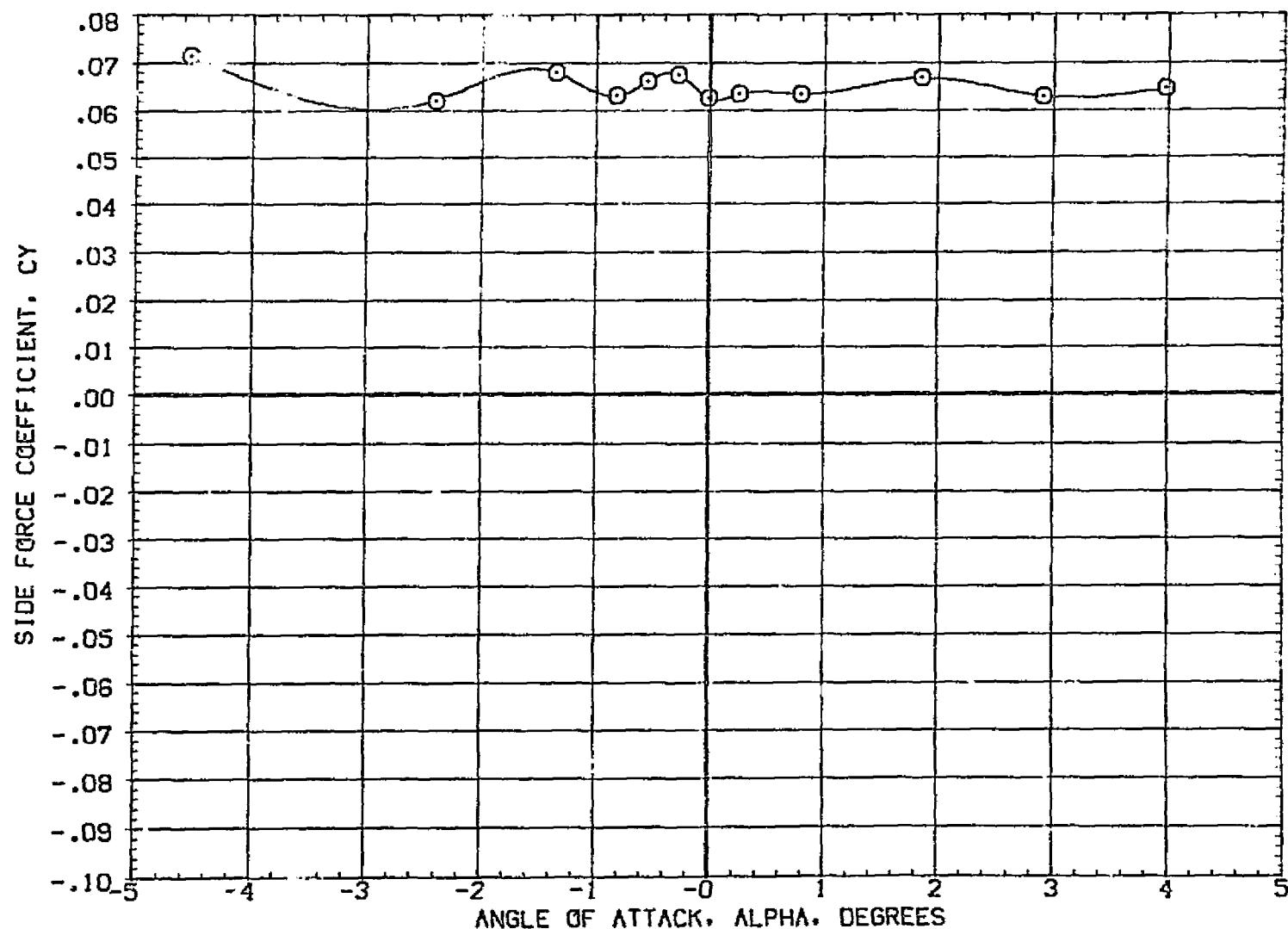


(G)MACH = 1.80

PAGE 42

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1003) □ DATA NOT AVAILABLE  
 (BX1004) × DATA NOT AVAILABLE  
 (BX1005) Δ DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SO.FT.
.000	40.000	.000	86.000	LREF	.3750 FT.
.000	60.000	.000	86.000	BREF	.3750 FT.
.000	100.000	.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



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### PITCH MODULATION EFFECT

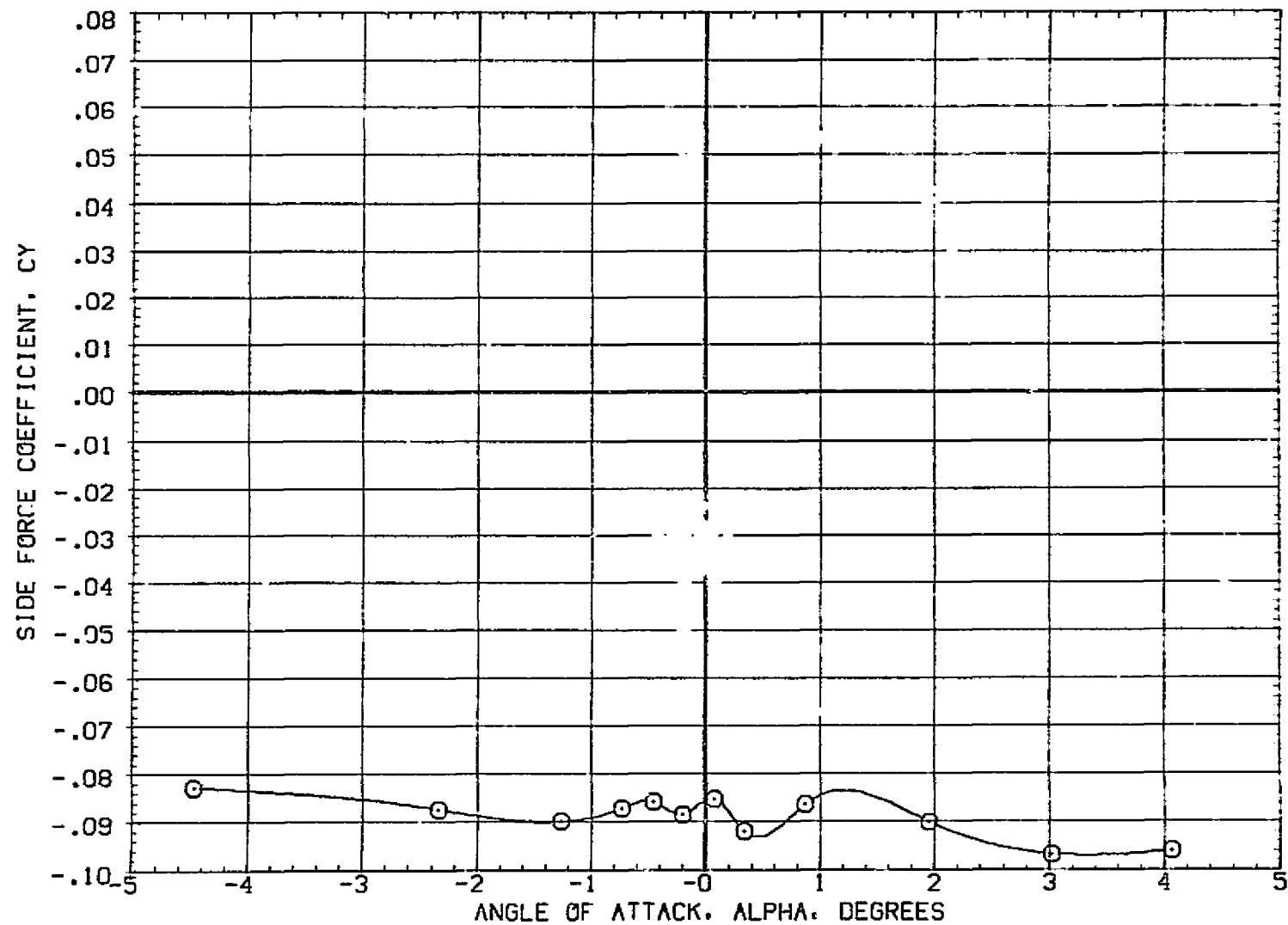
(CH)MACH = 2.20

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>23

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
(BX1002) O DCAT ARC 6C3/604 B2 F4 C  
(BX1003) □ DATA NOT AVAILABLE  
(BX1004) X DATA NOT AVAILABLE  
(PX1005) Δ DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SO.FT.
.000	40.000	.000	86.000	LREF	.3750 FT.
.000	60.000	.000	86.000	BREF	.3750 FT.
.000	100.000	.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



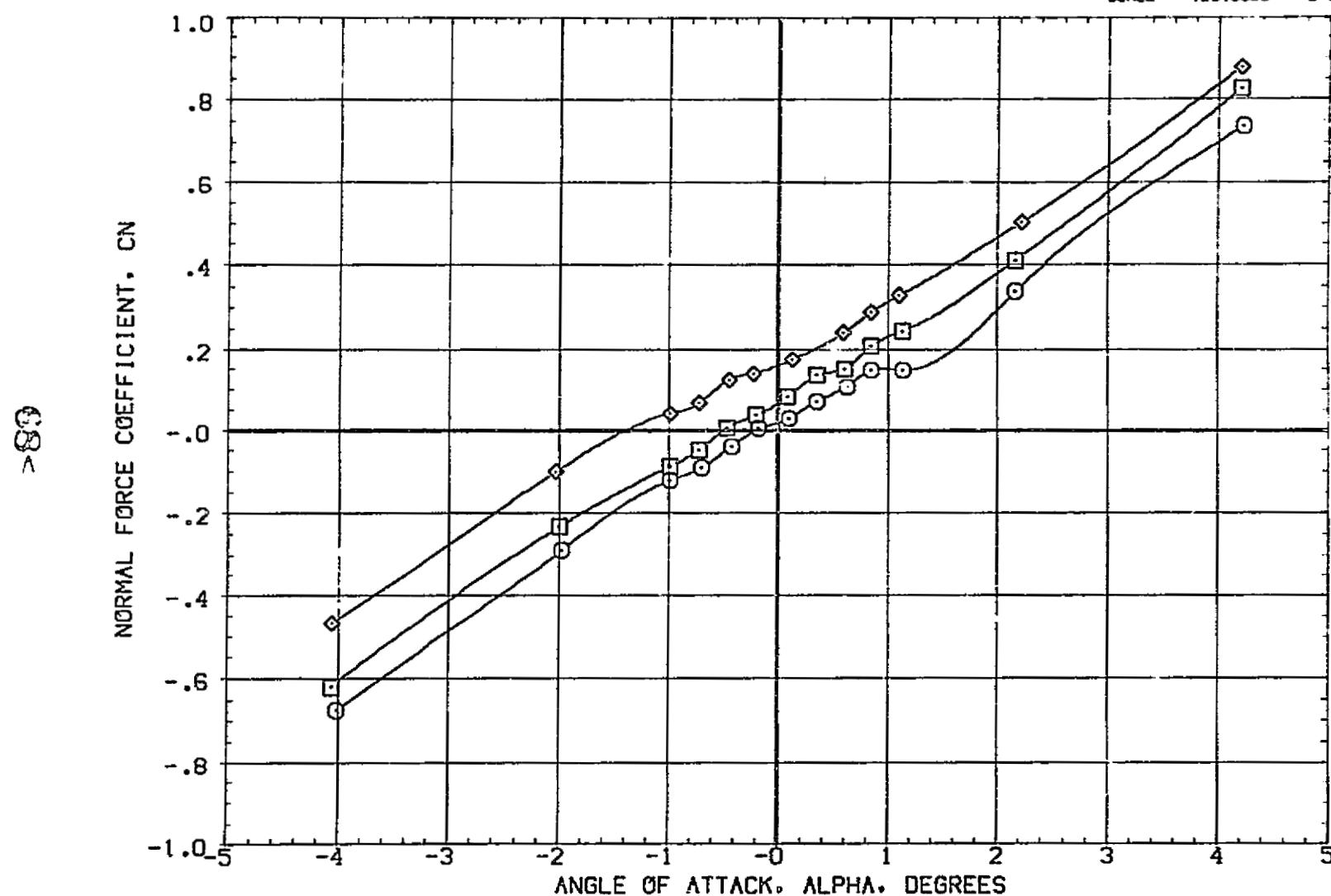
### PITCH MODULATION EFFECT

(1)MACH = 2.50

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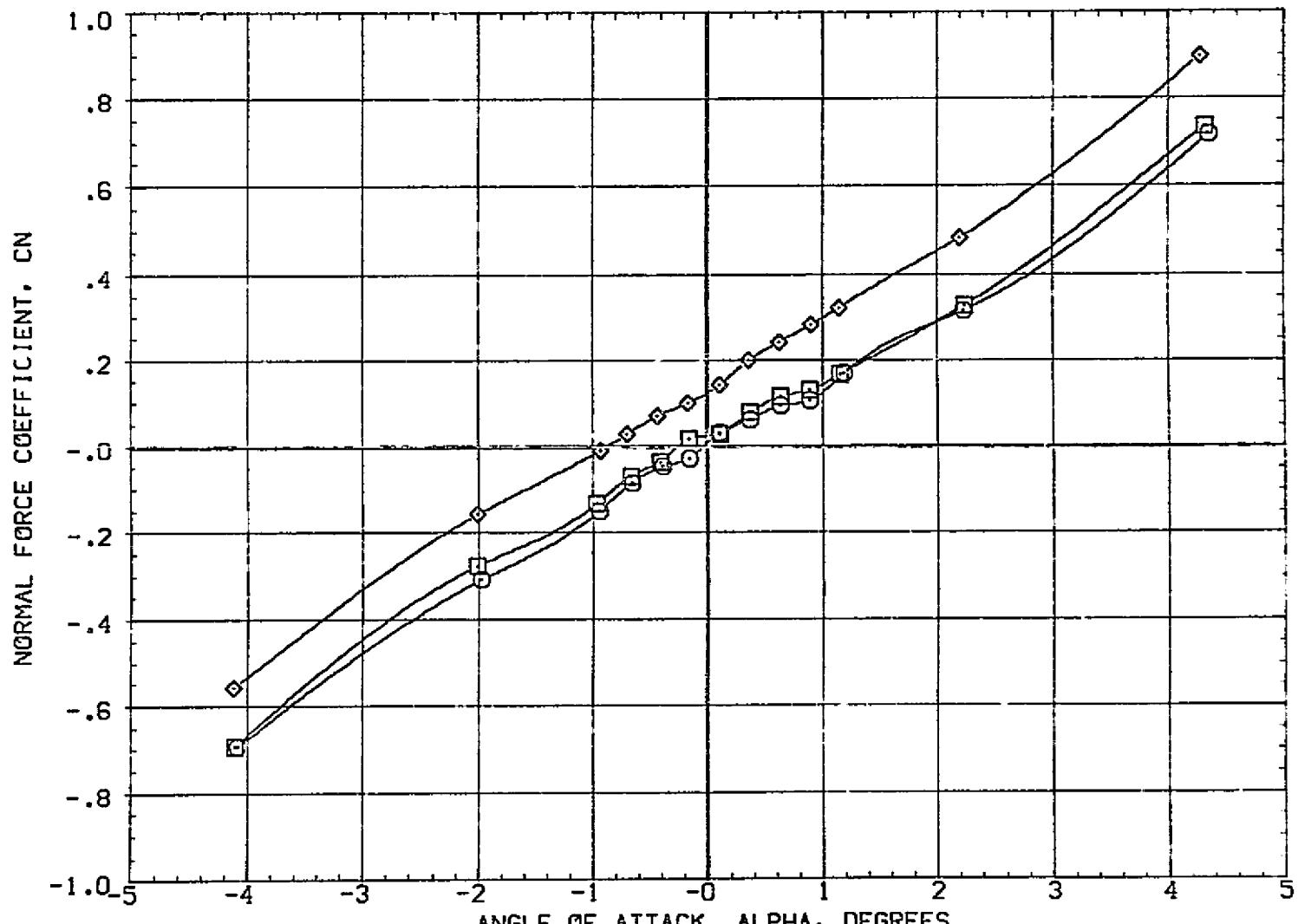
DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) OCAT ARC 603/604 B2 F4 C  
 (BX1007) LCAT ARC 603/604 B2 F4 C  
 (BX1008) DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE INFORMATION
.000	.000	40.000	86.000	SREF .1100 SO.FT.
.000	40.000	40.000	86.000	LREF .3750 FT.
.000	100.000	40.000	86.000	BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1007) □ DCAT ARC 603/604 B2 F4 C  
 (BX1008) ◇ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0V/PF	REFERENCE	INFORMATION
.000	.000	40.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	40.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



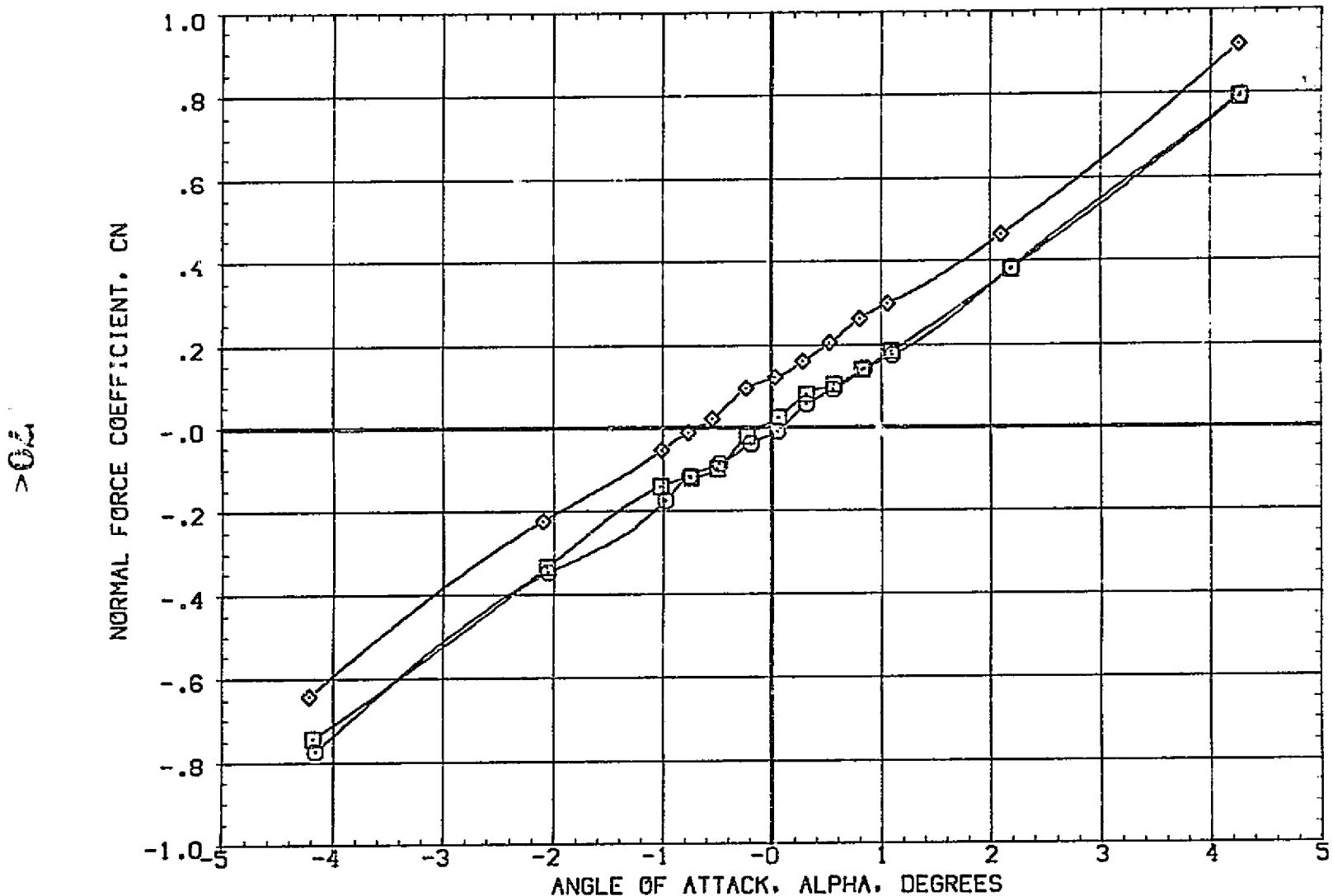
PITCH MODULATION EFFECT

MACH - 0.80

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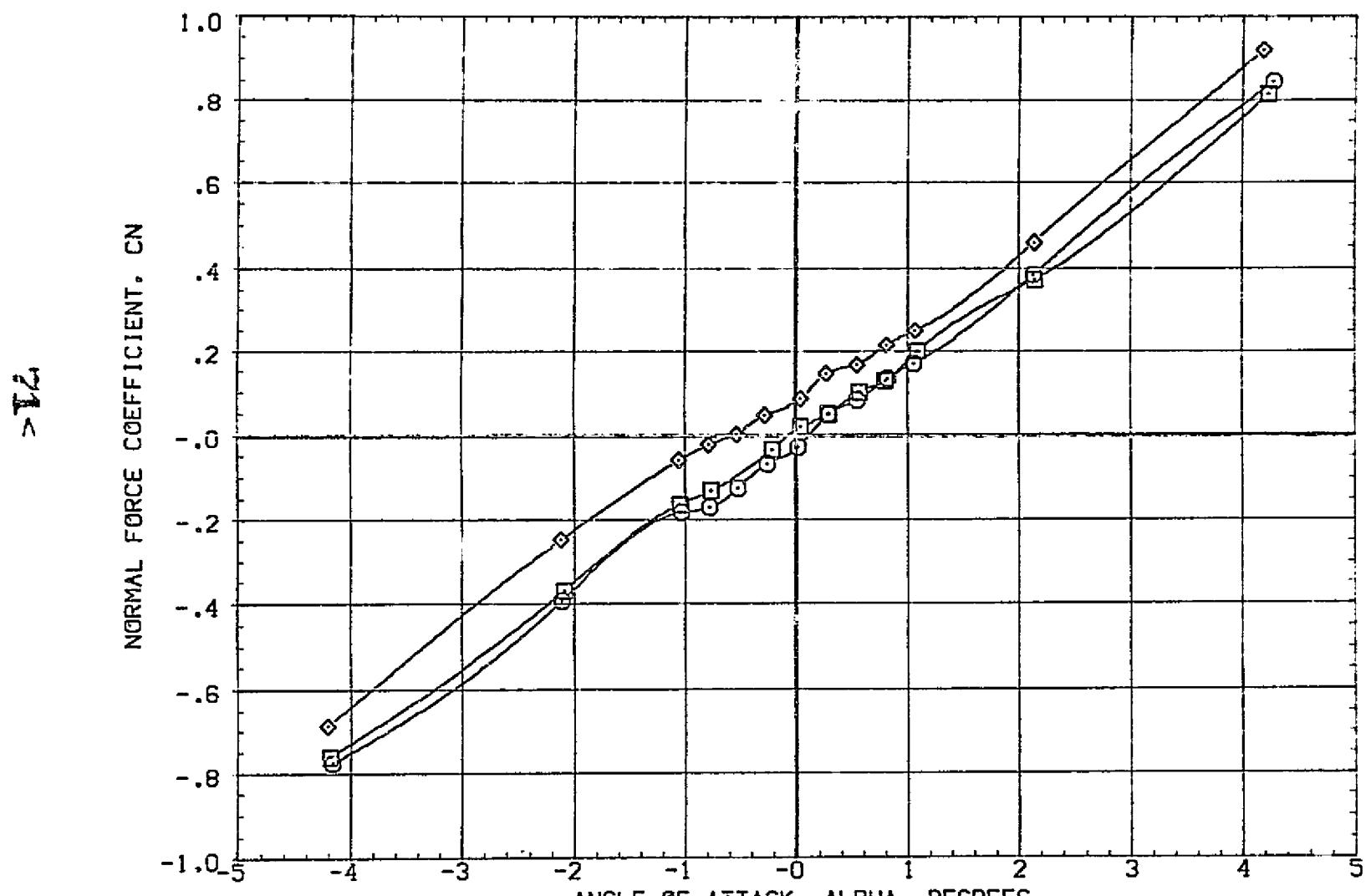
DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1007) □ DCAT ARC 603/604 B2 F4 C  
 (BX1008) ◊ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	40.000	86.000	SREF .1100 SQ.FT.
.000	40.000	40.000	86.000	LREF .3750 FT.
.000	100.000	40.000	86.000	BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCNT



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) ○ BEAT ARC 603/604 B2 F4 C  
 (BX1007) □ CCAT ARC 603/604 B2 F4 C  
 (BX1008) ◇ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	40.000	85.000	SREF	:1100 SQ.FT.
.000	40.000	40.000	86.000	LREF	:3750 FT.
.000	100.000	40.000	86.000	BREF	:3750 FT.
				XMRP	:0000 FT.
				YMRP	:0000 FT.
				ZMRP	:0000 FT.
				SCALE	125.0000 PERCNT



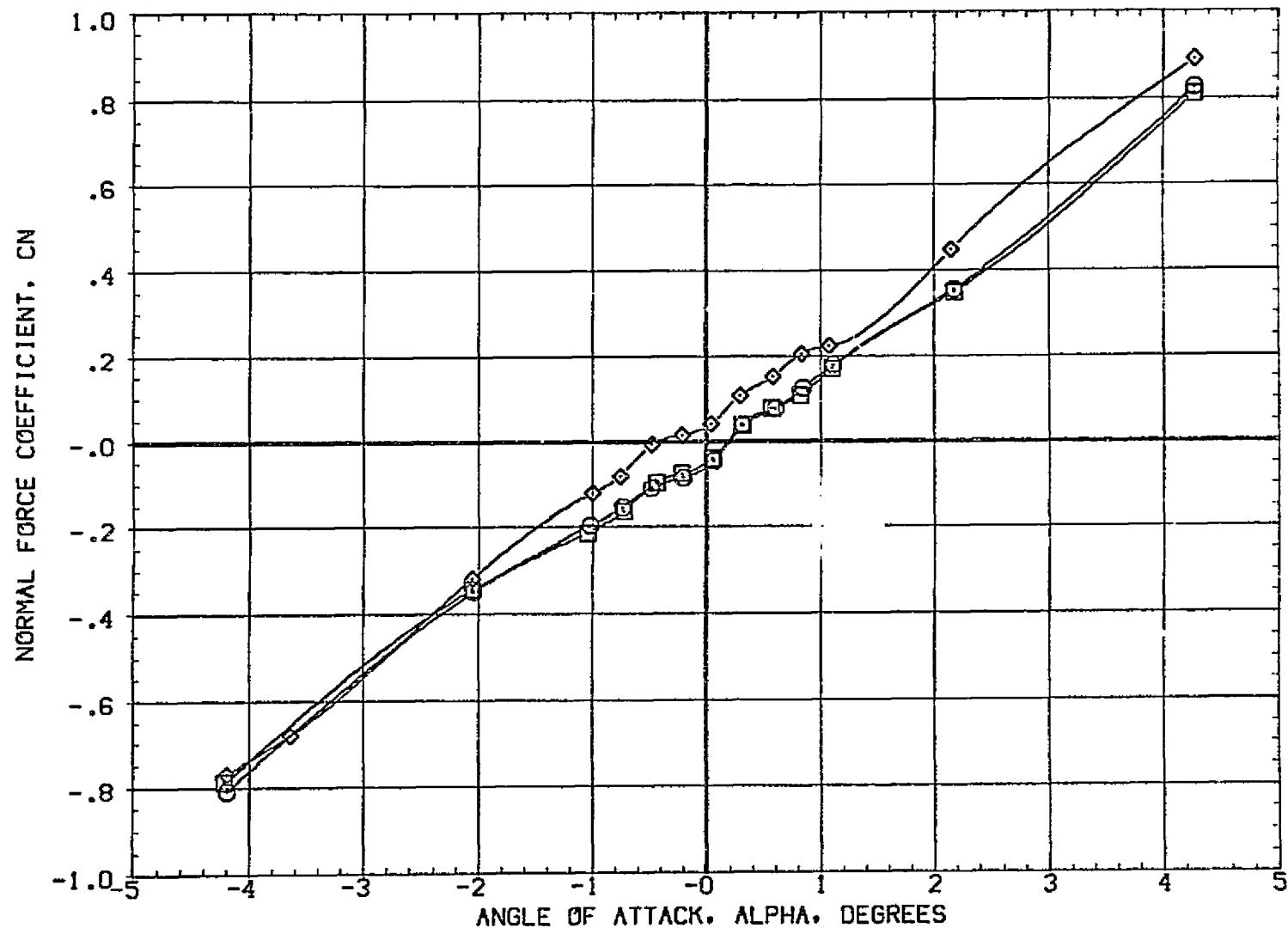
PITCH MODULATION EFFECT

(D)MACH = 1.00

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1007) □ DCAT ARC 603/604 B2 F4 C  
 (BX1008) ◊ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	FORMATION
.000	.000	40.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	40.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



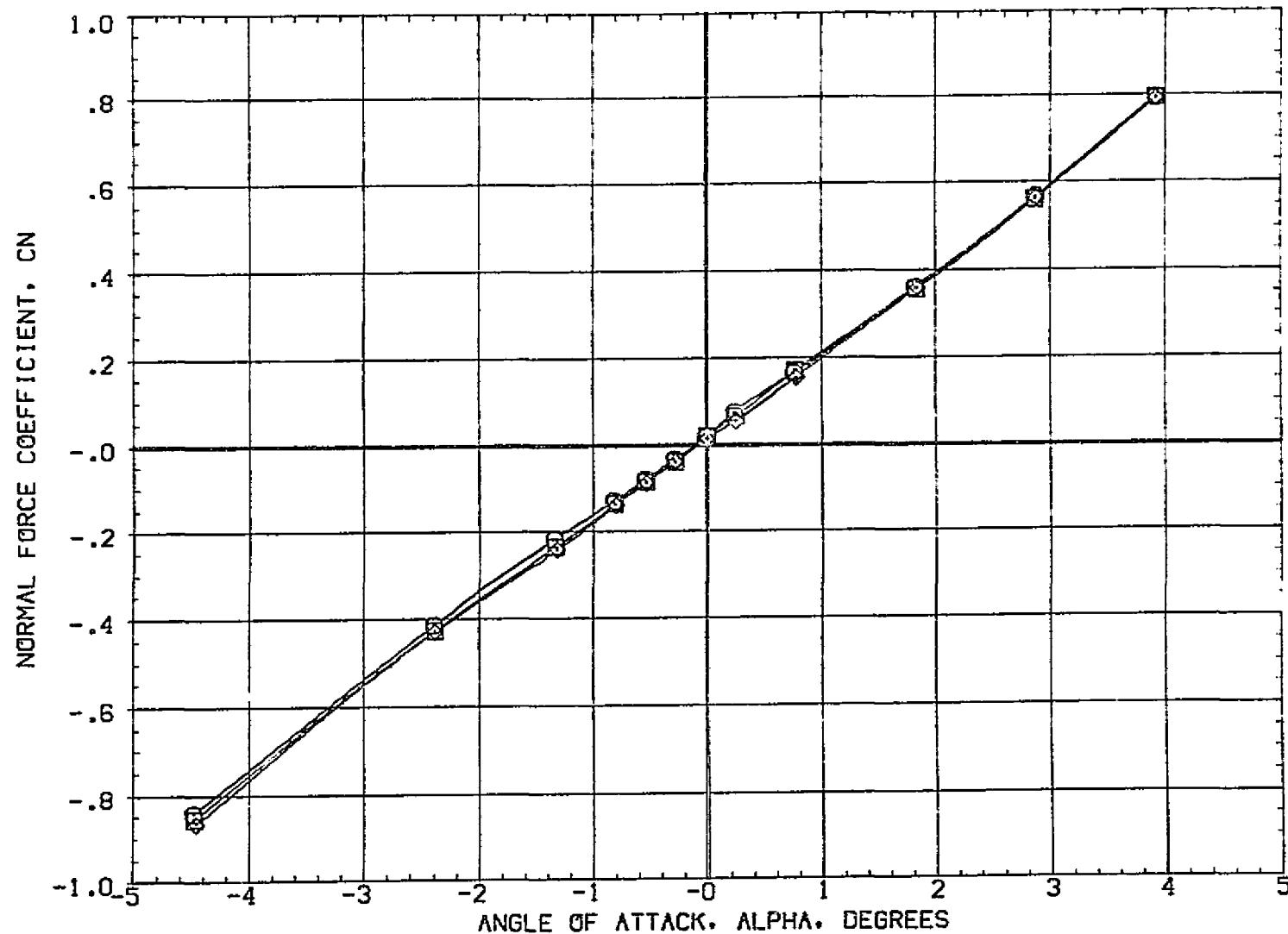
PITCH MODULATION EFFECT

(E)MACH = 1.10

PAGE 49

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1C06) O DAT ARC 603/604 B2 F4 C  
 (BX1C07) □ DAT ARC 603/604 B2 F4 C  
 (BX1C08) ◇ DAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	40.000	86.000	SREF	.1100 SC.FT.
.000	40.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	40.000	86.000	BREF	.3730 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



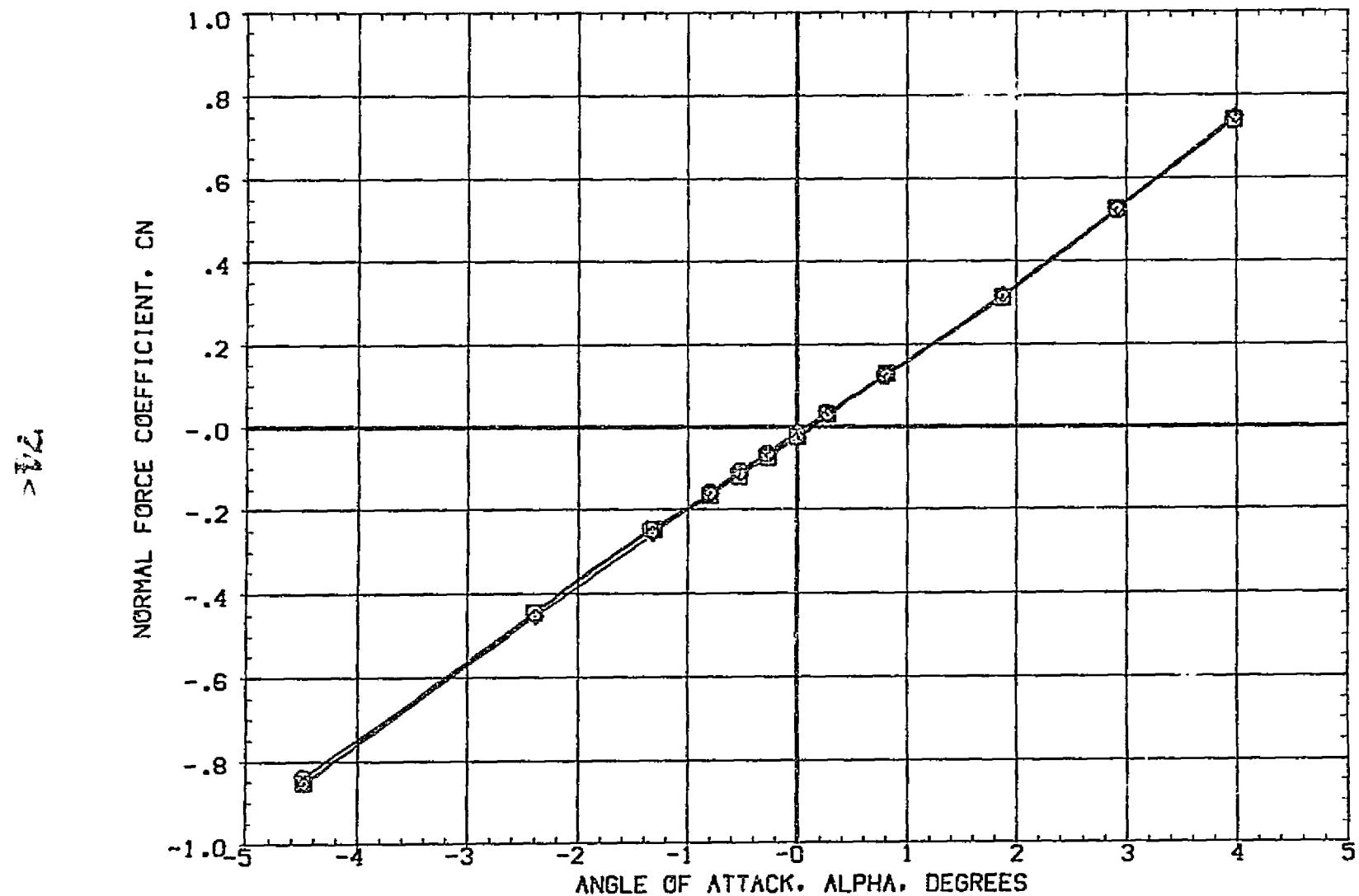
PITCH MODULATION EFFECT

(FMACH = 1.56

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006)  DCAT ARC 603/604 B2 F4 C  
 (BX1007)  DCAT ARC 603/604 B2 F4 C  
 (BX1008)  DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	40.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	40.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



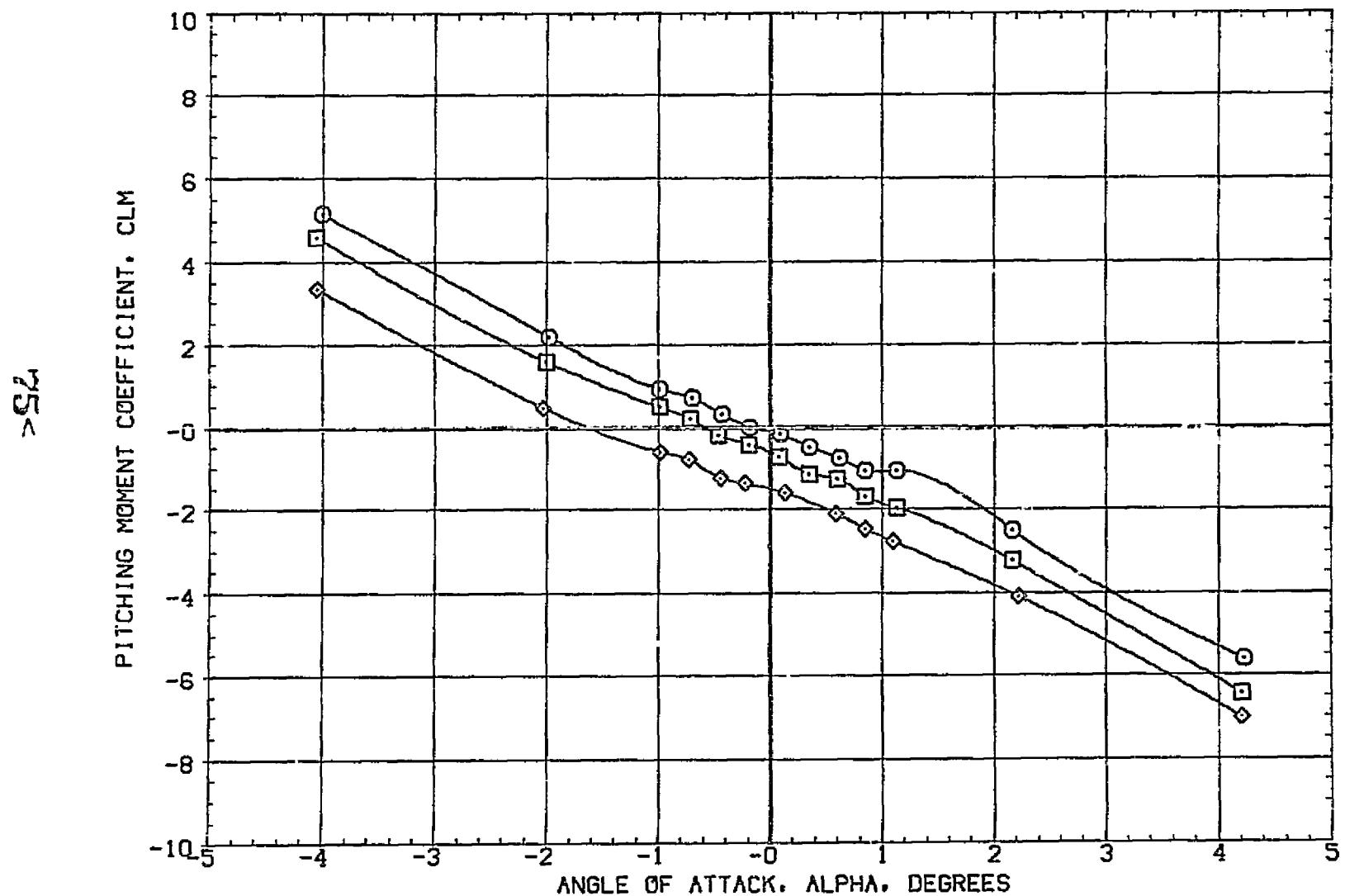
### PITCH MODULATION EFFECT

(G)MACH = 1.80

PAGE 51

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1007) D DCAT ARC 603/604 B2 F4 C  
 (BX1008) D DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	40.000	85.000	SREF	.1100 SQ.FT.
.000	40.000	40.000	85.000	LREF	.3750 FT.
.000	100.000	40.000	85.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



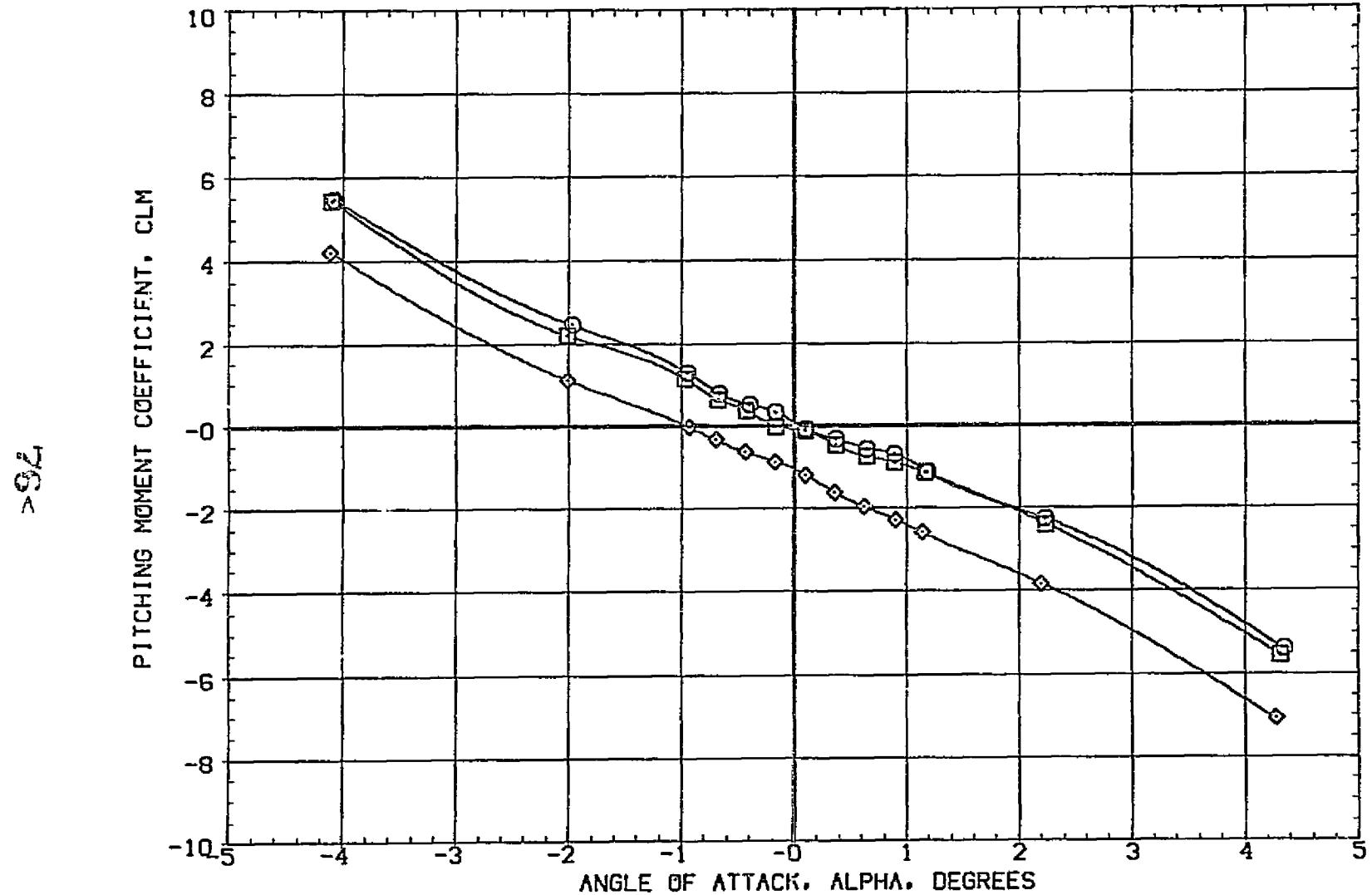
PITCH MODULATION EFFECT

(A)MACH = 0.64

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) DCAT ARC 603/604 B2 F4 C  
 (BX1007) DCAT ARC 603/604 B2 F4 C  
 (BX1008) DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	40.000	85.000	SREF	.1100 SQ.FT.
.000	40.000	40.000	85.000	LREF	.3750 FT.
.000	100.000	40.000	85.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



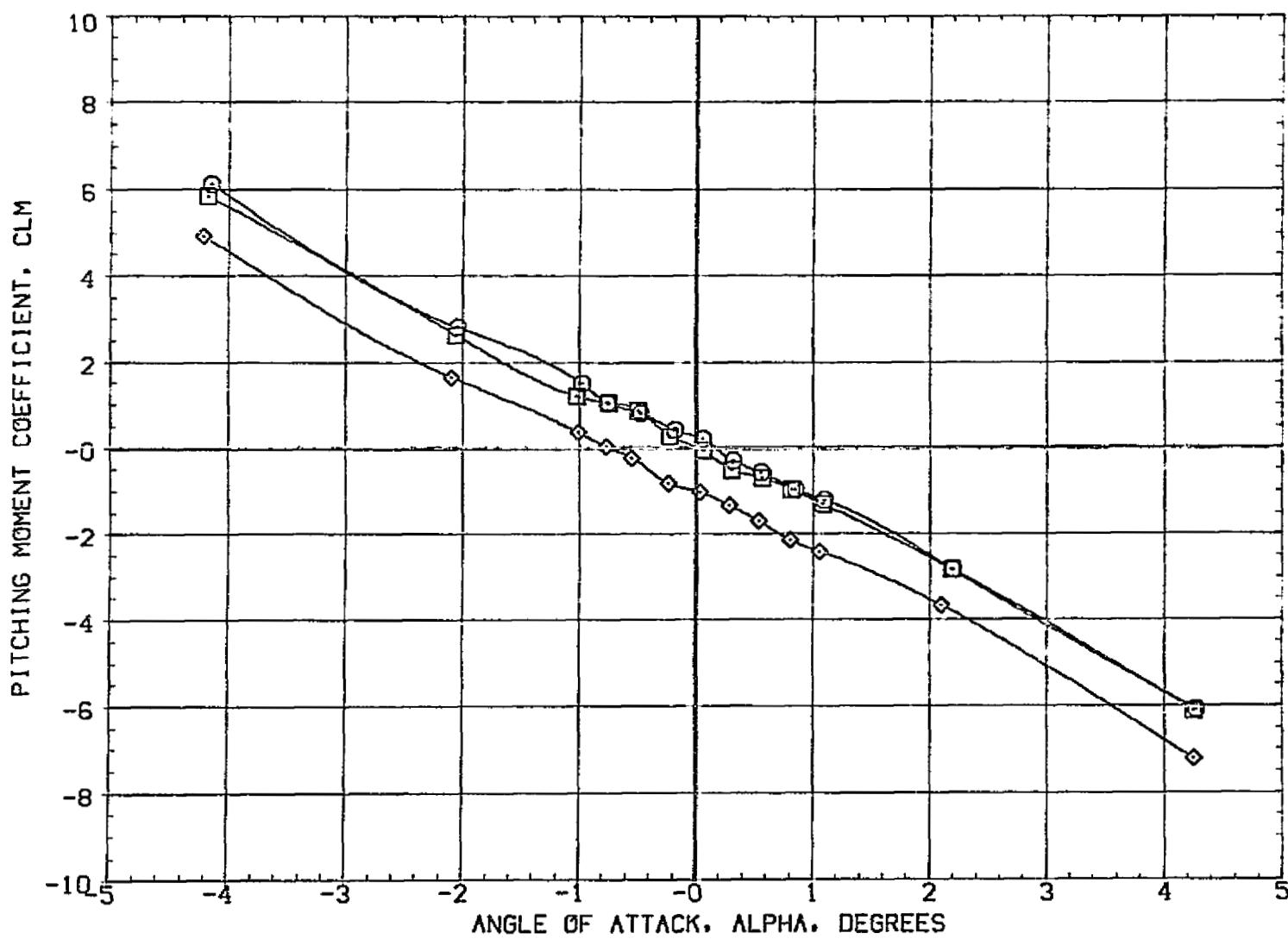
PITCH MODULATION EFFECT

(B)MACH = 0.80

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) ○ DCAT ARC 603/604 B2 F4 C  
 (BX1007) □ DCAT ARC 603/604 B2 F4 C  
 (BX1008) ◊ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE	INFORMATION
.000	.000	40.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	40.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



PITCH MODULATION EFFECT

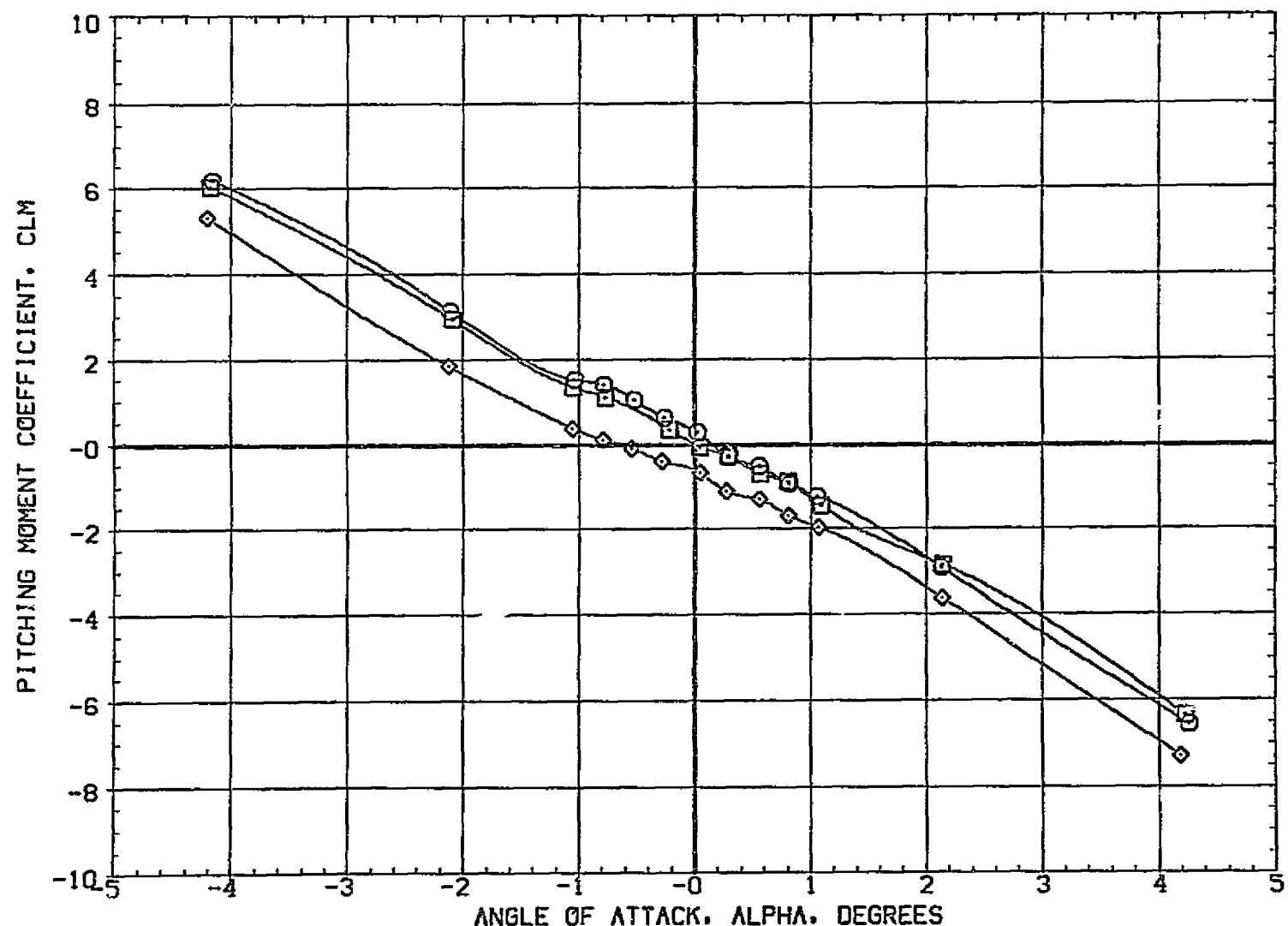
(C)MACH = 0.95

PAGE 54

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1007) □ DCAT ARC 603/604 B2 F4 C  
 (BX1008) ◊ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF	REFERENCE	INFORMATION
.000	.000	40.000	86.000	SREF	.1100 SO.FT.
.000	40.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	40.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

>842



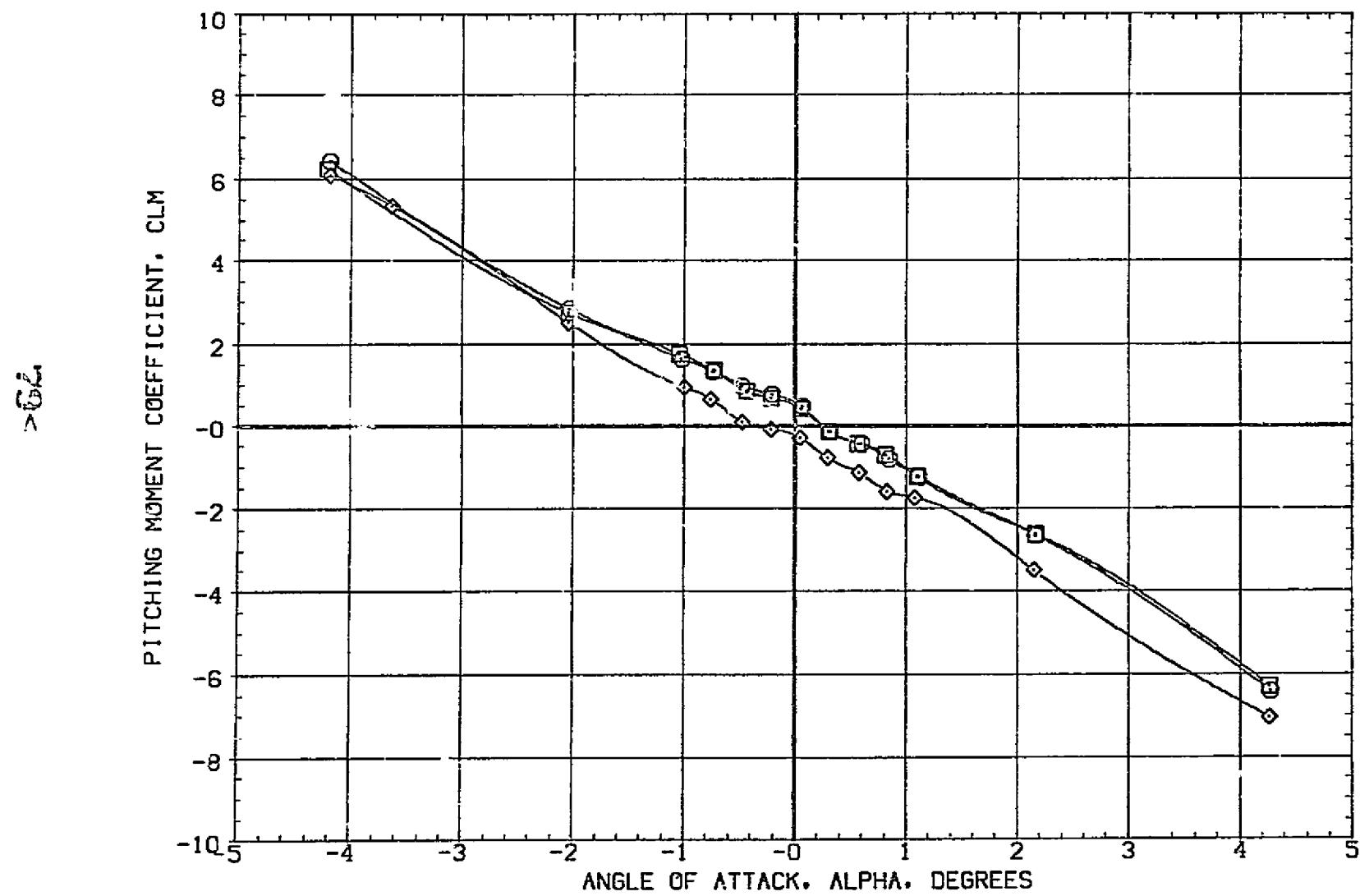
### PITCH MODULATION EFFECT

(O) MACH = 1.00

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1007) □ DCAT ARC 603/604 B2 F4 C  
 (BX1008) ◊ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	40.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	40.000	85.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT

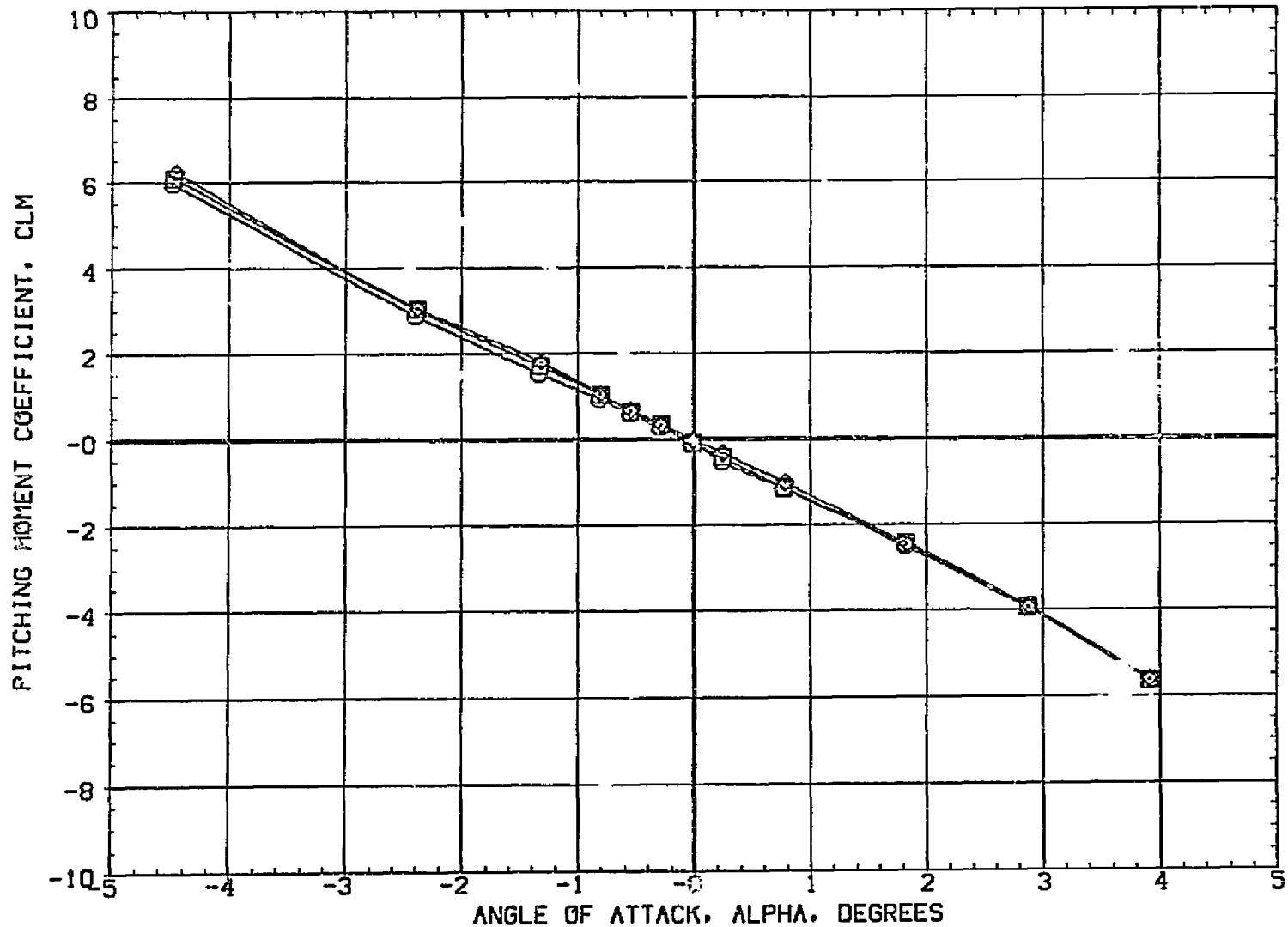


### PITCH MODULATION EFFECT

(F)<sub>MACH</sub> = 1.10

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1007) X DCAT ARC 603/604 R2 F4 C  
 (BX1008) G DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	40.000	86.000	SPEF	11100 SQ.FT.
.000	40.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	40.000	86.000	BREF	.3750 FT.
				XMRD	.0000 FT.
				YMRP	.0020 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

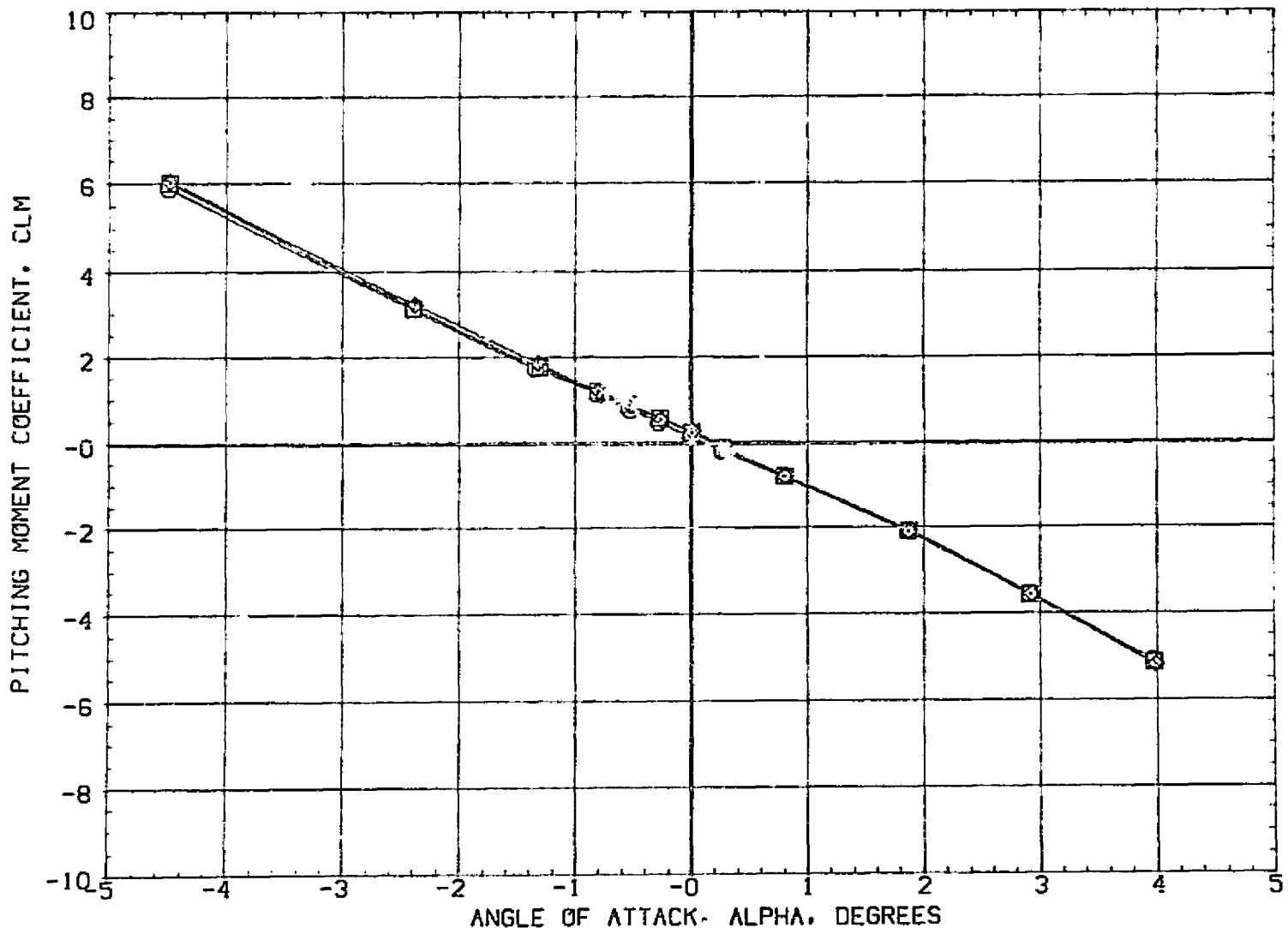


### PITCH MODULATION EFFECT

(F)MACH = 1.56

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 BX10061 OCAT ARC 603/604 B2 F4 C  
 BX10071 OCAT ARC 603/604 B2 F4 C  
 BX10081 OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	40.000	86.000	SREF	1100 SD.FT.
.000	40.000	40.000	86.000	LREF	3750 FT.
.000	100.000	40.000	86.000	RREF	3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



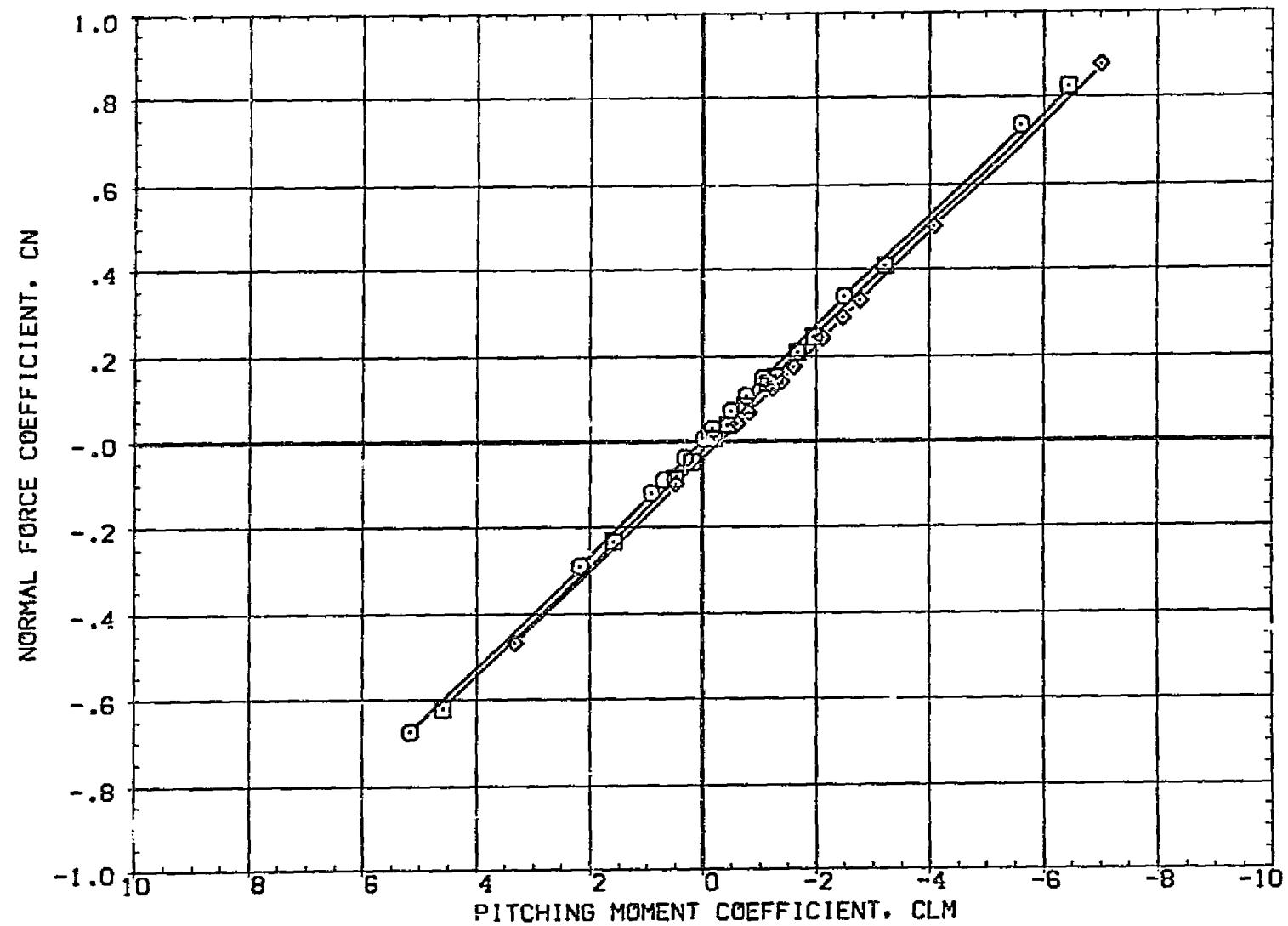
### PITCH MODULATION EFFECT

CGMACH = 1.80

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1007) □ DCAT ARC 603/604 B2 F4 C  
 (BX1008) ◊ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/PF	REFERENCE INFORMATION
.000	.000	40.000	86.000	SREF .1100 SQ.FT.
.000	40.000	40.000	86.000	LREF .3750 FT.
.000	100.000	40.000	86.000	BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



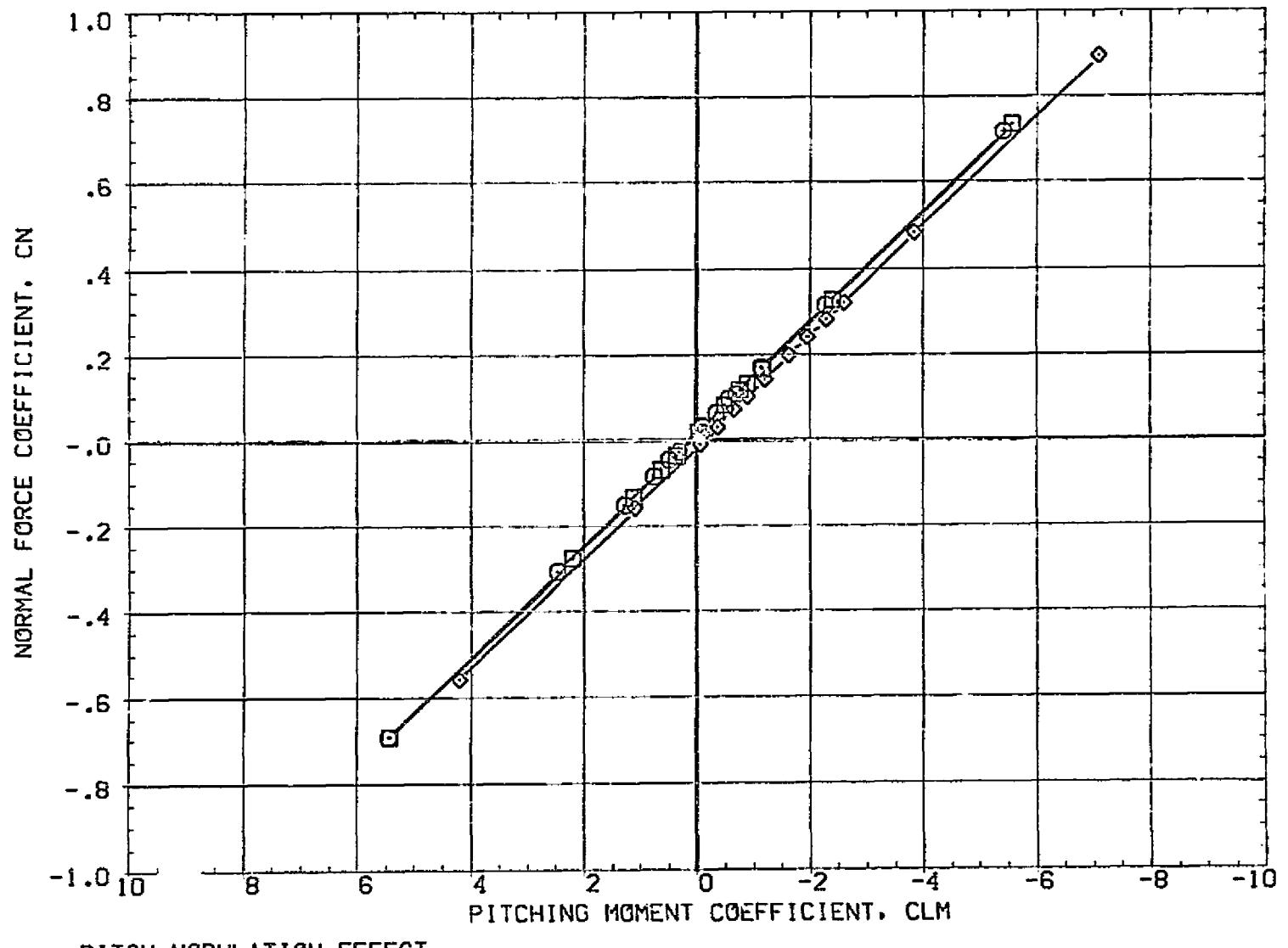
PITCH MODULATION EFFECT

(A)MACH = 0.64

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) DCAT ARC 603/604 B2 F4 C  
 (BX1007) DCAT ARC 603/604 B2 F4 C  
 (BX1008) DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PQJ/PF	REFERENCE INFORMATION
.000	.000	40.000	86.000	SREF .1100 SC.FT.
.000	40.000	40.000	86.000	LREF .3750 FT.
.000	100.000	40.000	86.000	BREF .3750 FT.
			86.C10	ZMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



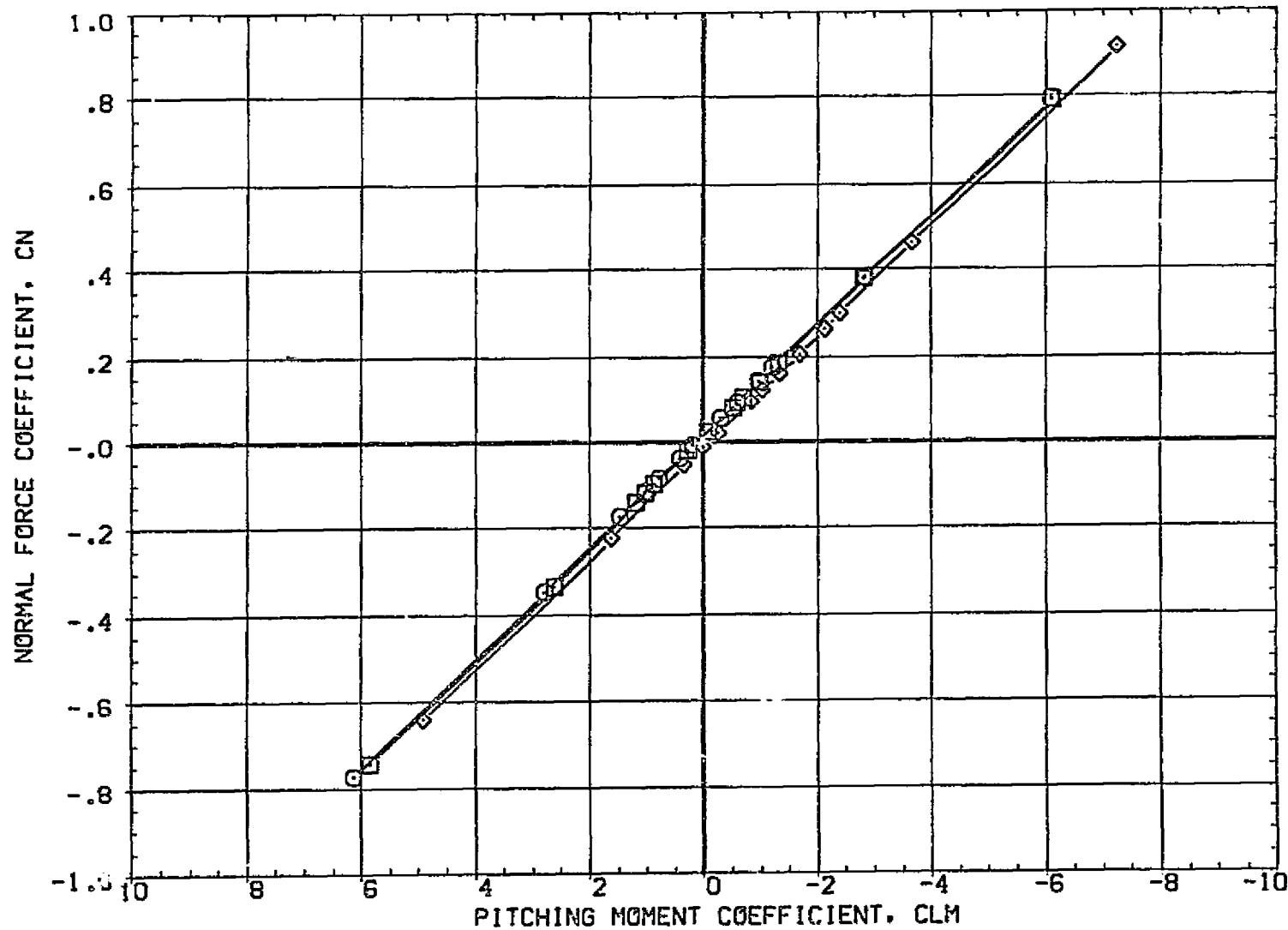
PITCH MODULATION EFFECT

CRIMSON = 0.90

PAGE 60

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) DCAT ARC 603/604 B2 F4 C  
 (BX1007) DCAT ARC 603/604 B2 F4 C  
 (BX1008) DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	V-MOD	POW/PF	REFERENCE	INFORMATION
.000	.000	40.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	40.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



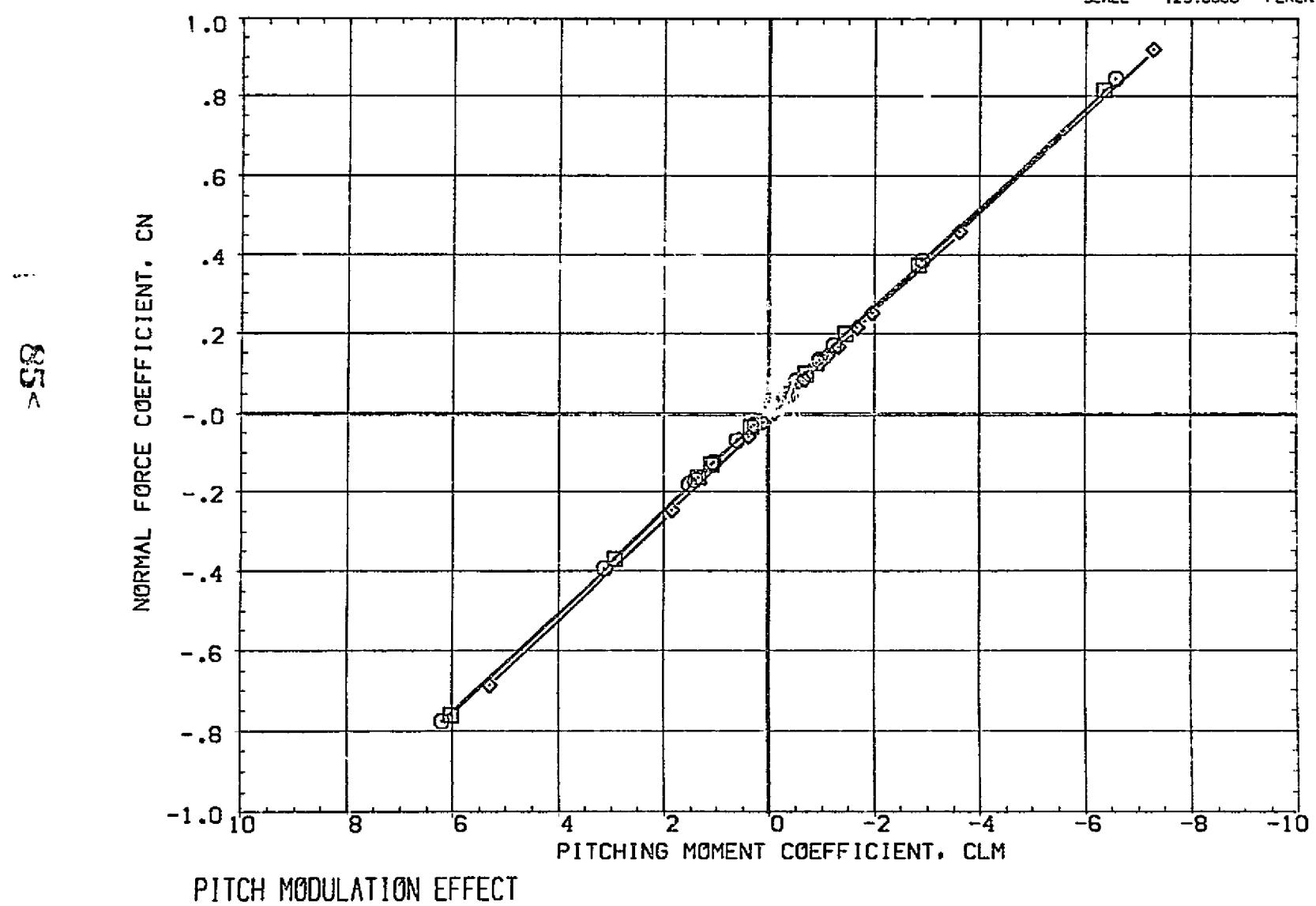
PITCH MODULATION EFFECT

(C)MACH = 0.95

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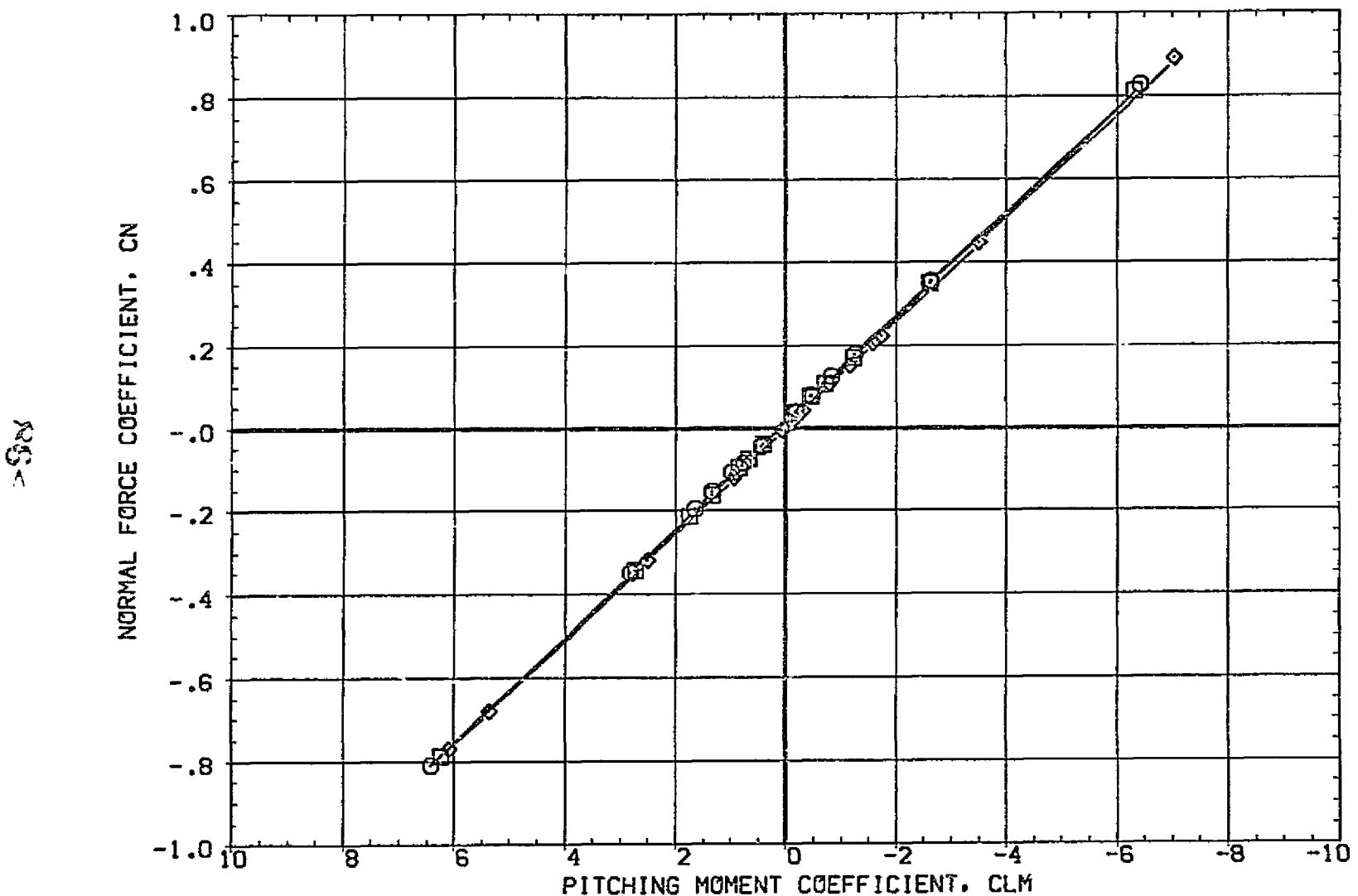
DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1007) □ DCAT ARC 603/604 B2 F4 C  
 (BX1009) ◊ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	40.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	40.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006)  DCAT ARC 603/604 B2 F4 C  
 (BX1007)  DCAT ARC 603/604 B2 F4 C  
 (BX1008)  DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	40.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	40.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



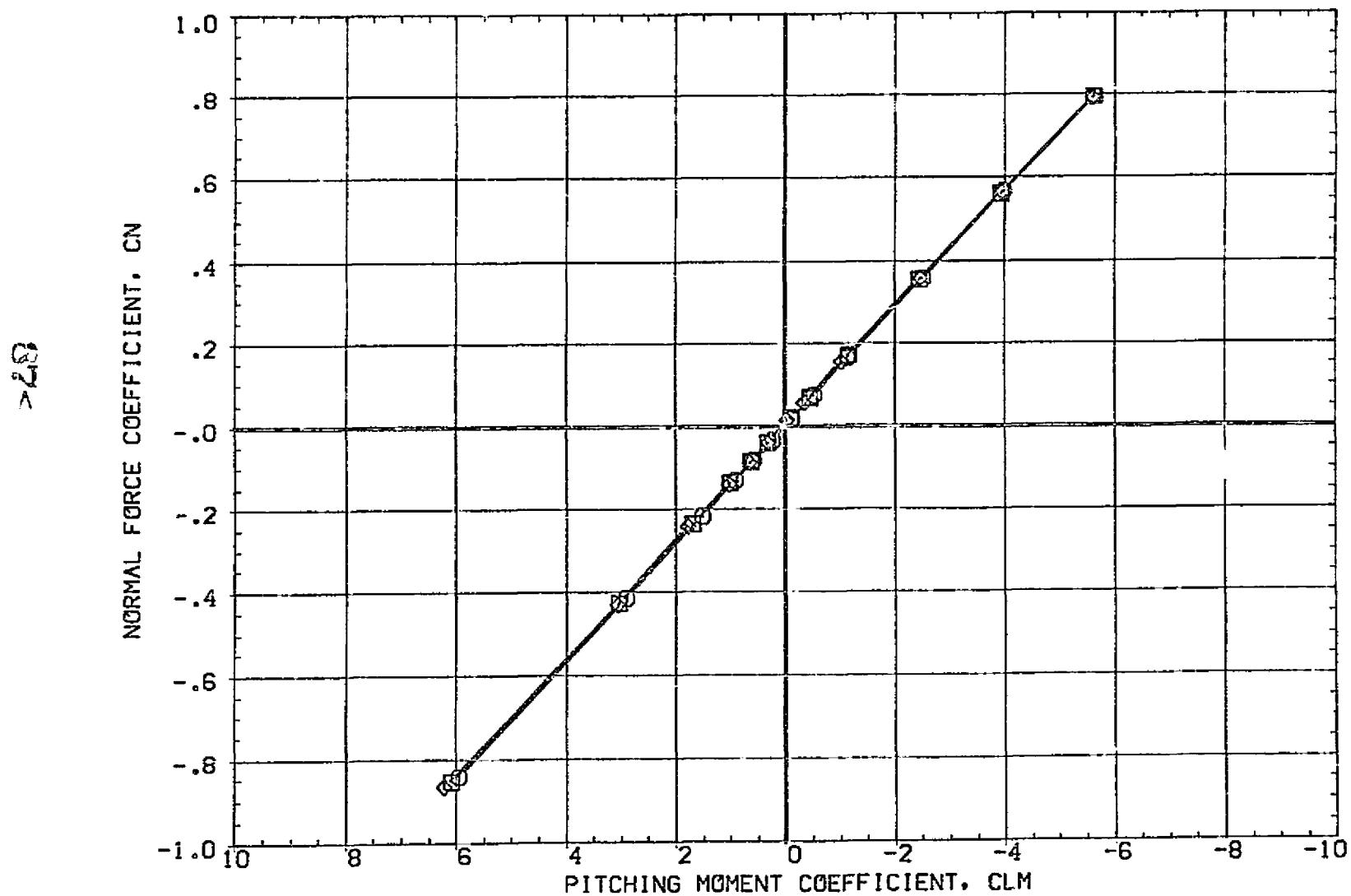
PITCH MODULATION EFFECT

(E)MACH = 1.10

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1007) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) D DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF	REFERENCE	INFORMATION
.000	.000	40.000	86.000	SREF	.1100 SD.F1.
.000	40.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	40.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



### PITCH MODULATION EFFECT

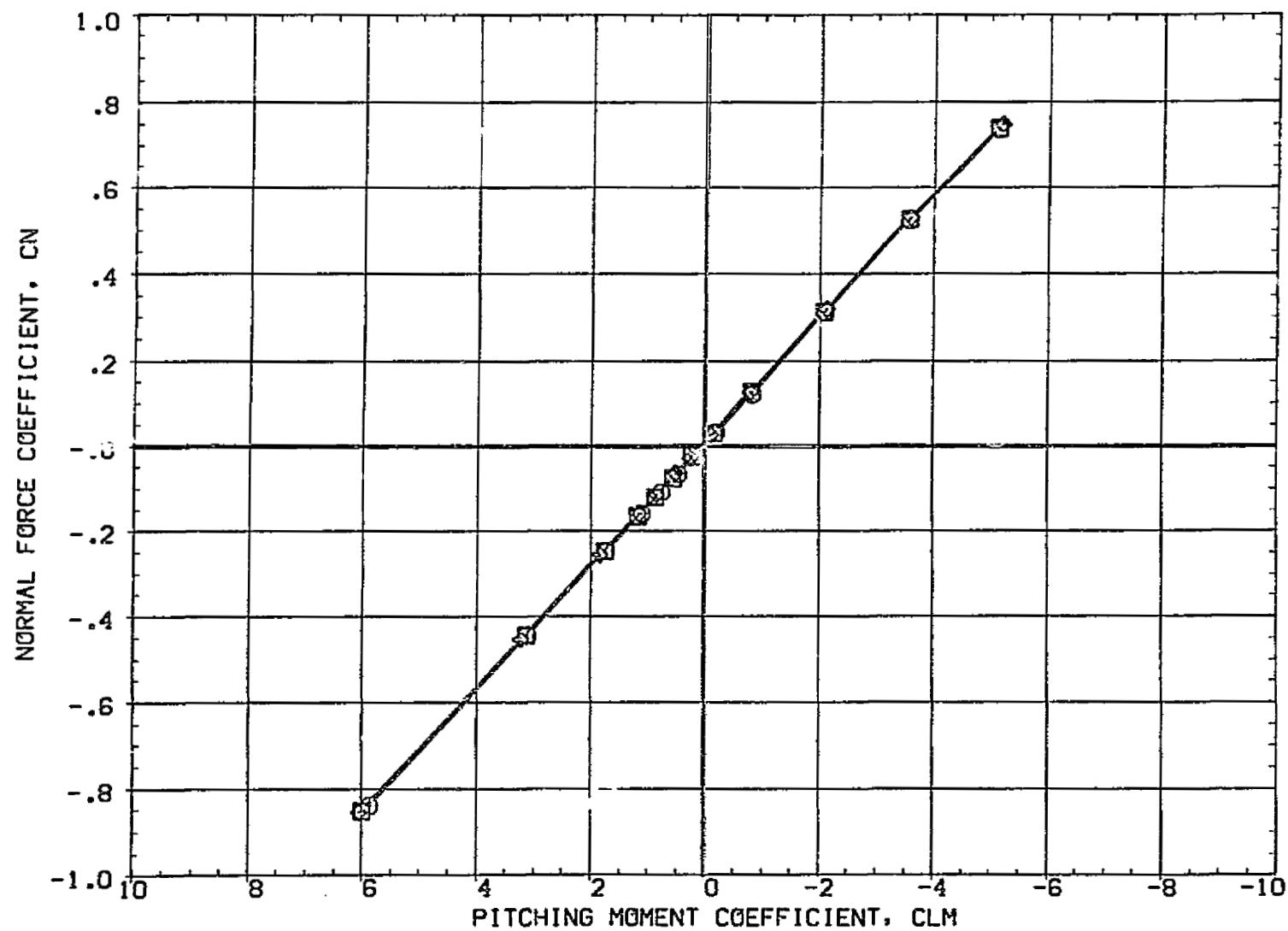
REF ID: A31034 - 156

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1007) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) D DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF	REFERENCE	INFORMATION
.000	.000	40.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	40.000	86.000	RREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT

>8.0



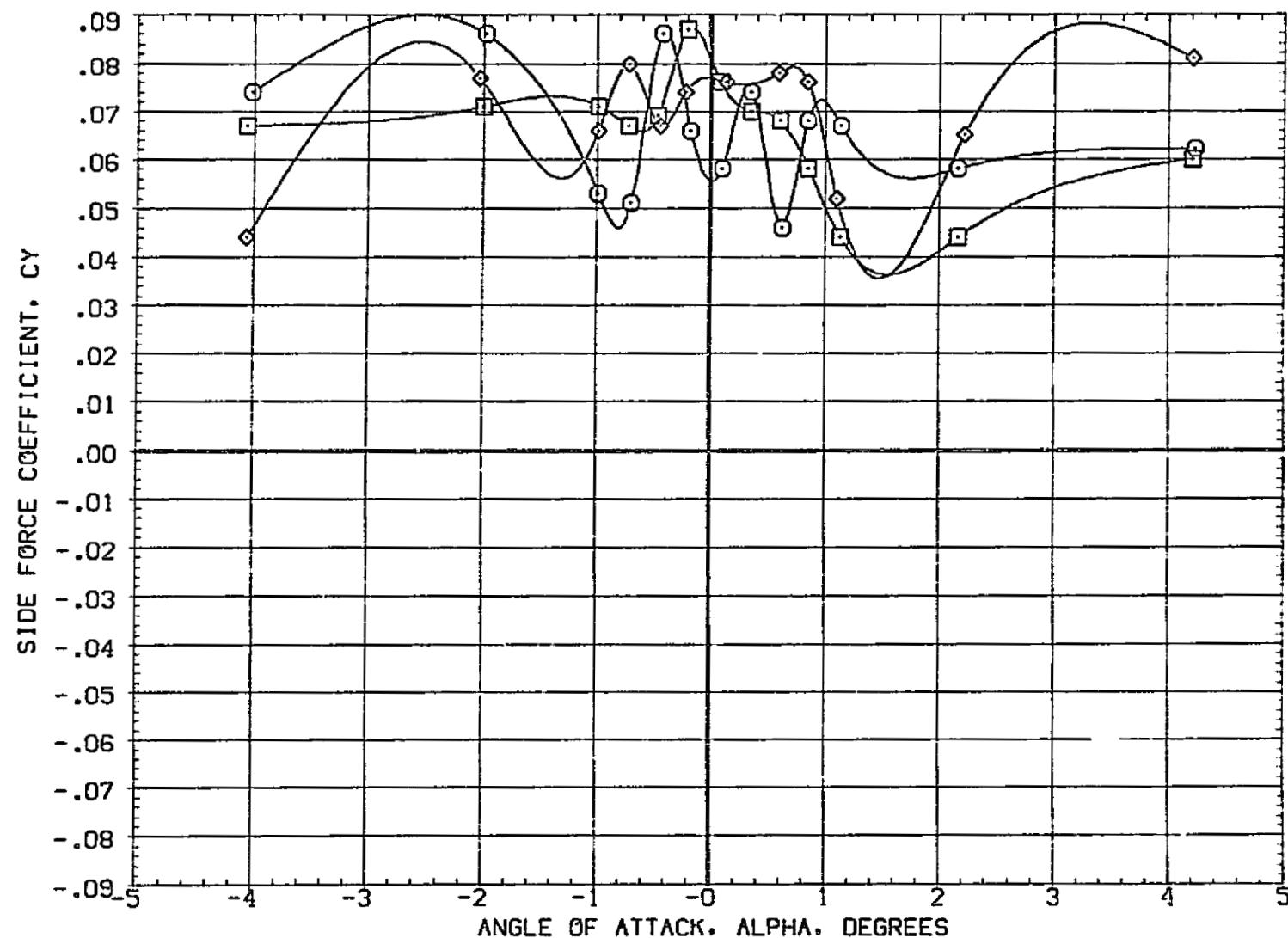
### PITCH MODULATION EFFECT

(G)MACH = 1.80

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1007) □ DCAT ARC 603/604 B2 F4 C  
 (BX1008) ◇ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/PF	REFERENCE INFORMATION
.000	.000	40.000	86.000	SREF .1100 SO.FT.
.000	40.000	40.000	86.000	LREF .3750 FT.
.000	100.000	40.000	86.000	BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .3000 TI.
				SCALE 125.0000 PERCENT



### PITCH MODULATION EFFECT

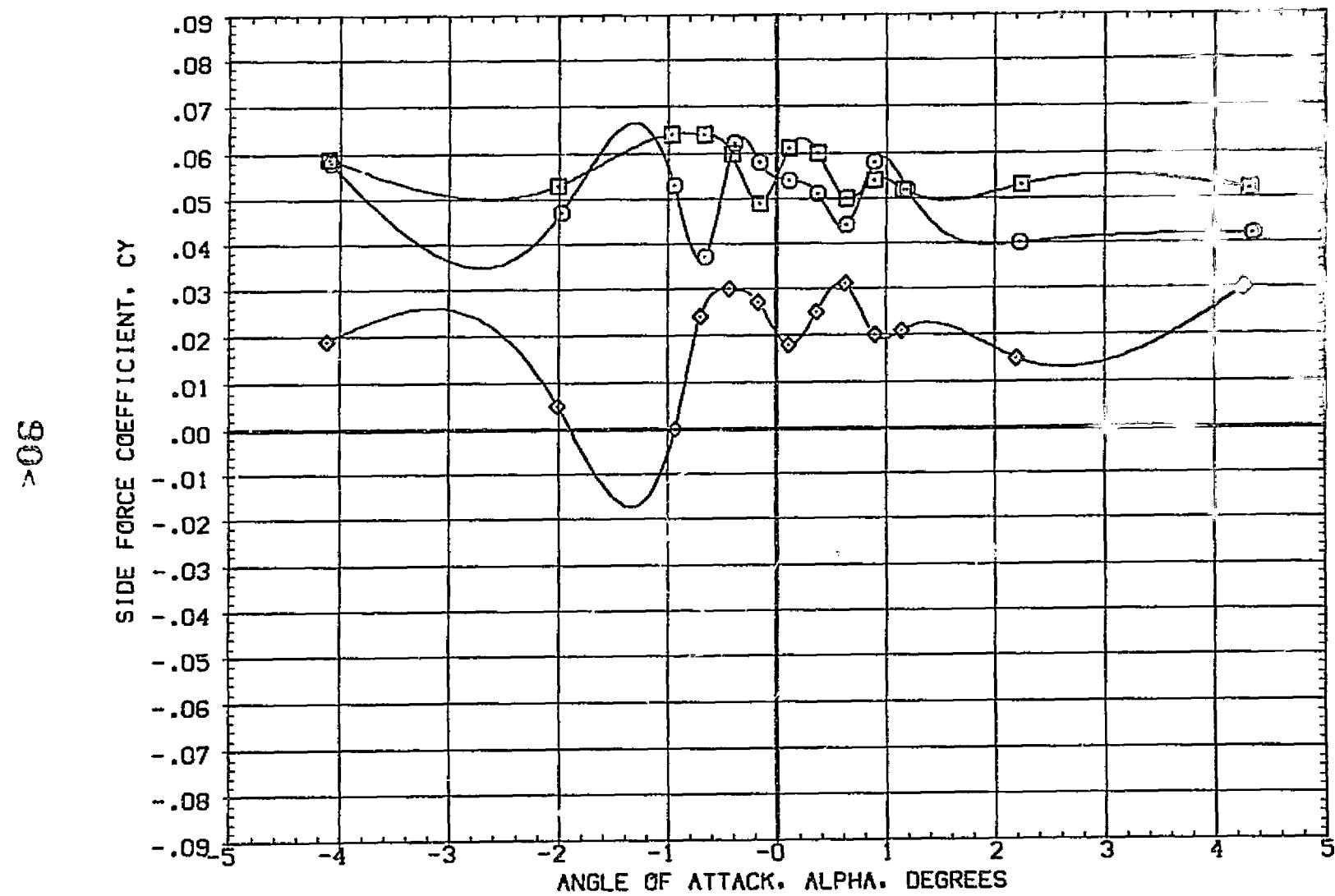
(A)MACH = 0.64

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>68

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) □ OCAT ARC 603/604 B2 F4 C  
 (BX1007) □ OCAT ARC 603/604 B2 F4 C  
 (BX1008) ◇ OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	RQ/PF	REFERENCE INFORMATION
.000	.000	40.000	69.700	.1100 SQ.FT.
.000	40.000	40.000	69.700	.3750 FT.
.000	100.000	40.000	69.700	.3750 FT.
				REFP
				MDP
				DP
				0.0000 FT.
				0.0000 FT.
				0.0000 FT.
				SCALE 125.0000 PERCENT

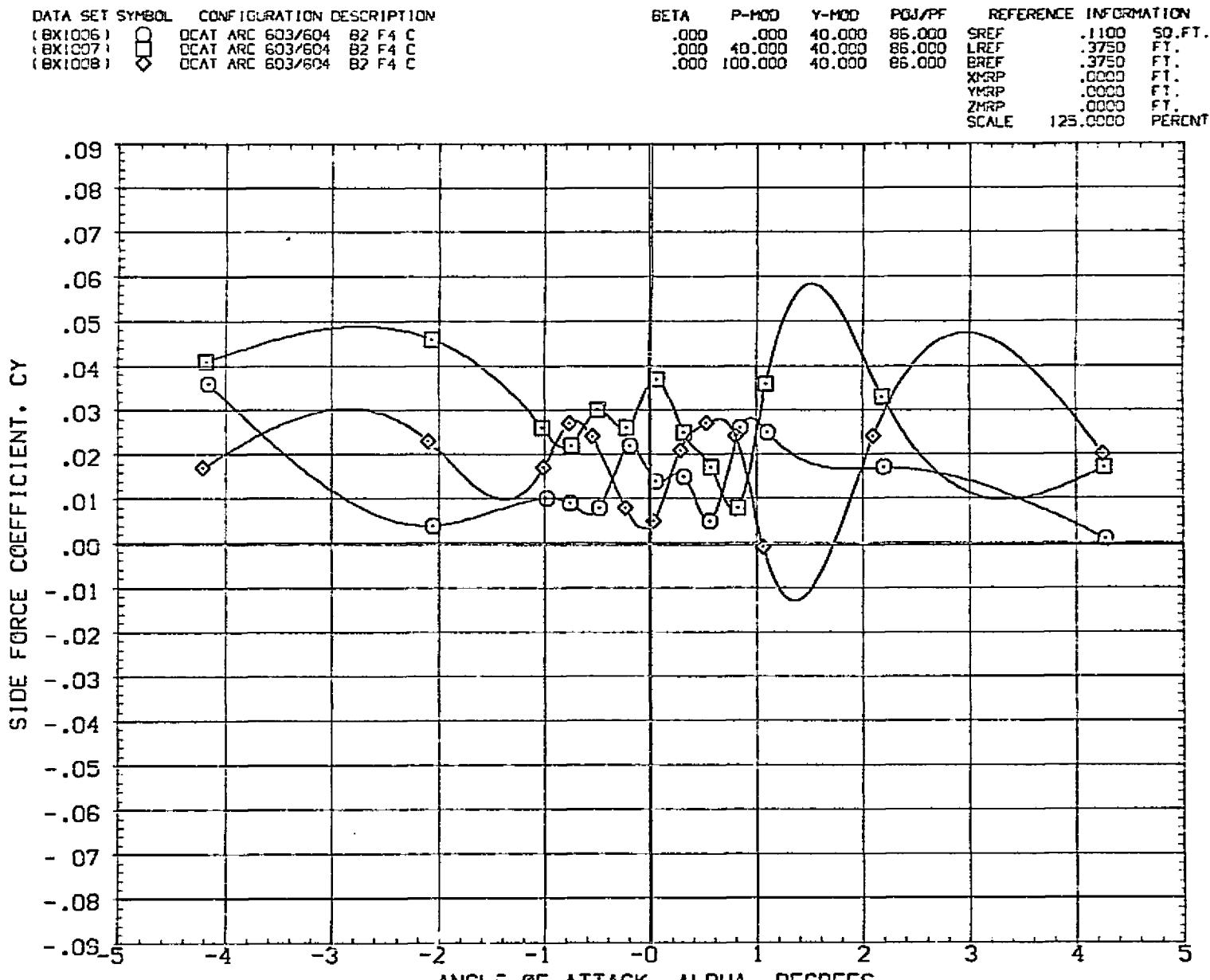


PITCH MODULATION EFFECT

(B)MACH = 0.80

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>T6

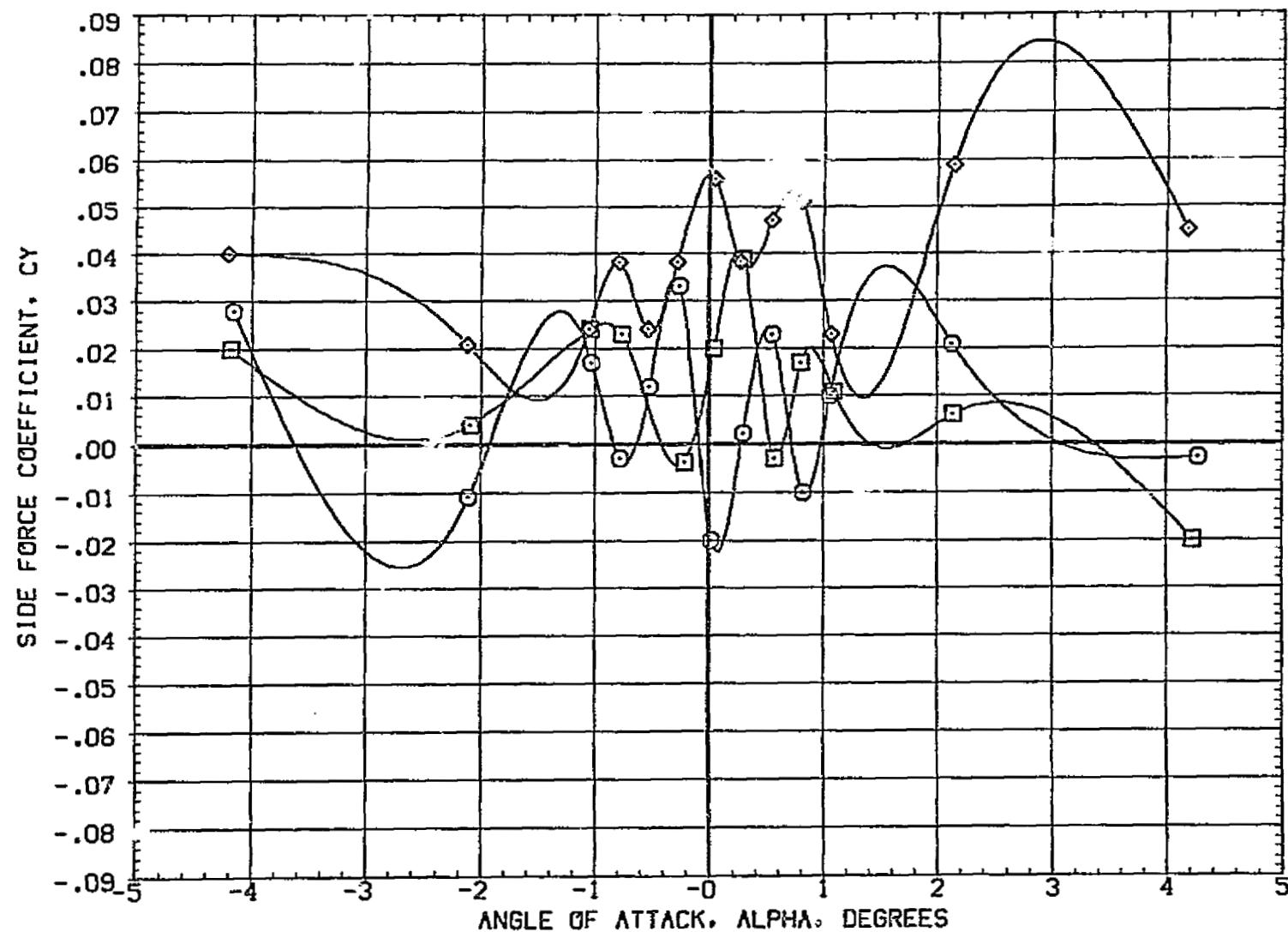


FORMAT = 0.95

DACE 70

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1007) □ DCAT ARC 603/604 B2 F4 C  
 (BX1008) ◊ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	40.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	40.000	85.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



PITCH MODULATION EFFECT

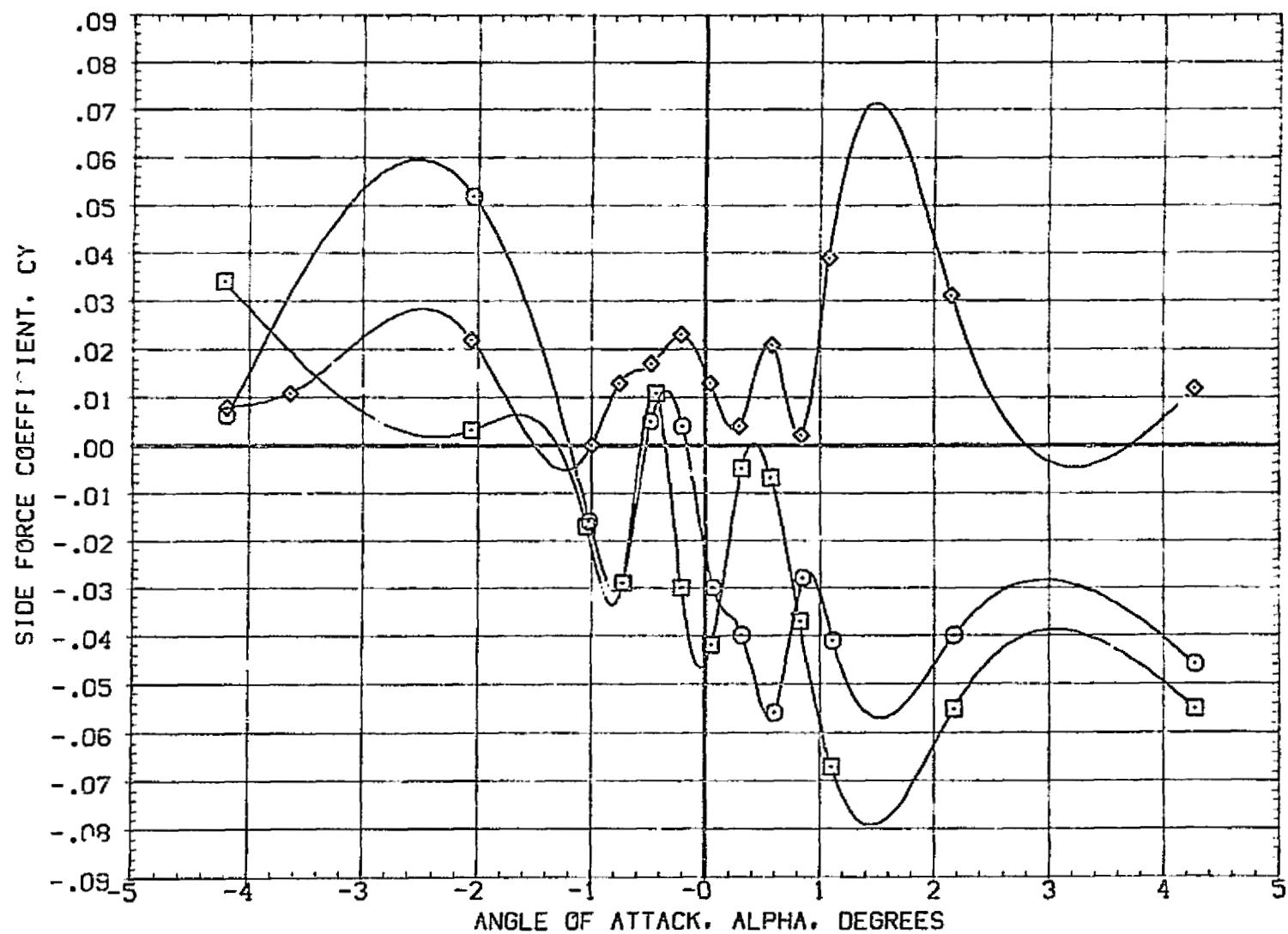
(D)MACH = 1.00

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> 6.6

DATA SET SYMBOL CONSIDERATION DESCRIPTION  
(BX1006) O DCAT ARC 603/604 B2 F4 C  
(BX1007) □ DCAT ARC 603/604 B2 F4 C  
(BX1008) ◊ DCAT ARC 603/604 B2 F4 C

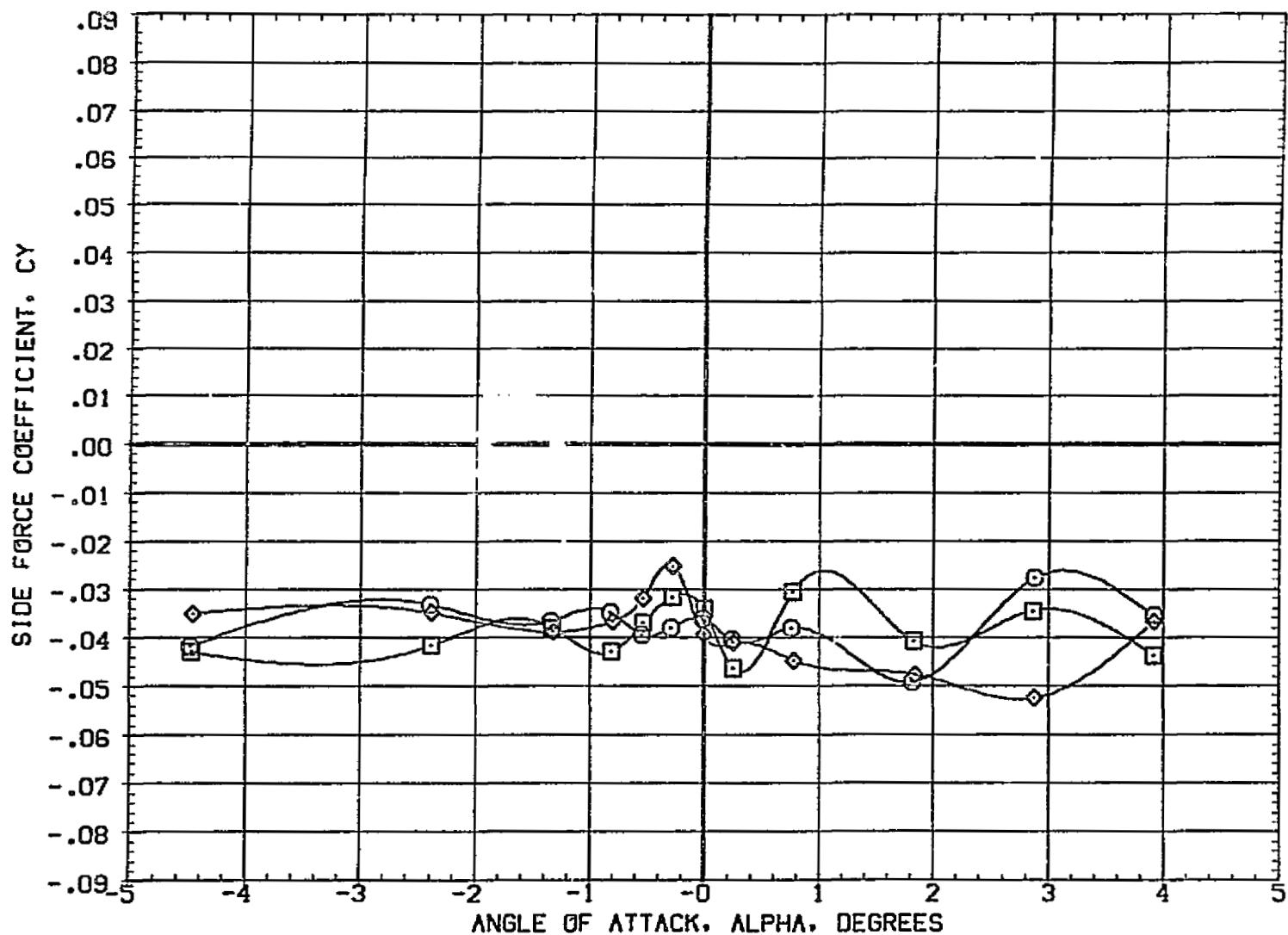
BETA P-MOD Y-MOD PDY/PF REFERENCE INFORMATION  
.000 .000 40.000 65.000 SREF .1100 SQ.FT.  
.000 40.000 40.000 65.000 LREF .3750 FT.  
.000 100.000 40.000 65.000 BREF .3750 FT.  
XMRP .0000 FT.  
YMRP .0000 FT.  
ZMRP .0000 FT.  
SCALE 125.0000 PERCENT



PITCH MODULATION EFFECT

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) O DCAT ARC 603/604 82 F4 C  
 (BX1007) □ DCAT ARC 603/604 82 F4 C  
 (BX1009) ◇ DCAT ARC 603/604 82 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	40.000	86.000	SREF .1100 SO.FT.
.000	40.000	40.000	86.000	LREF .3750 FT.
.000	100.000	40.000	86.000	BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



### PITCH MODULATION EFFECT

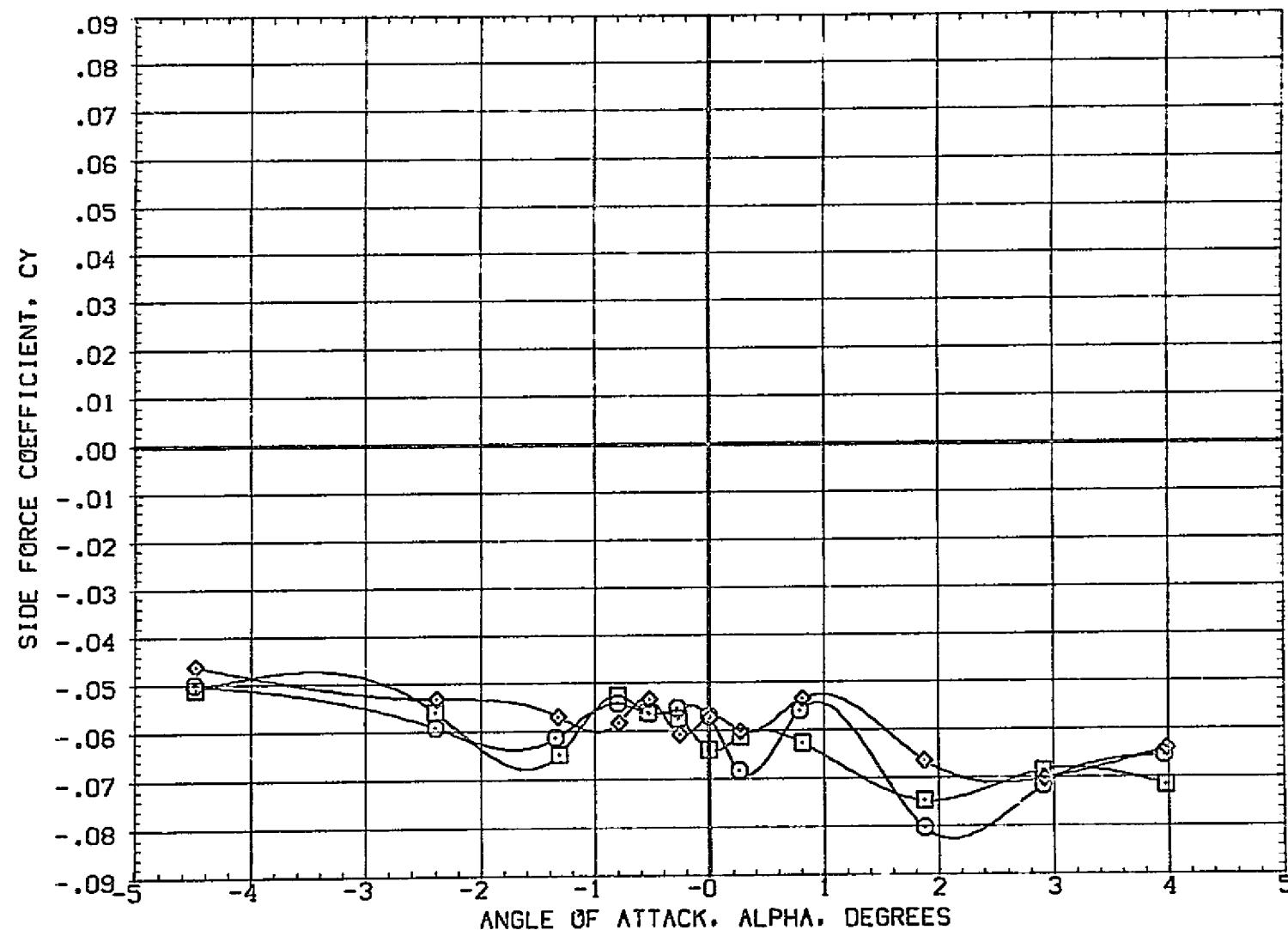
(F)MACH = 1.56

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1007) □ DCAT ARC 603/604 B2 F4 C  
 (BX1008) ◇ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE	INFORMATION
.000	.000	40.000	86.000	SREF	.1100 SO.FT.
.000	40.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	40.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

>GG

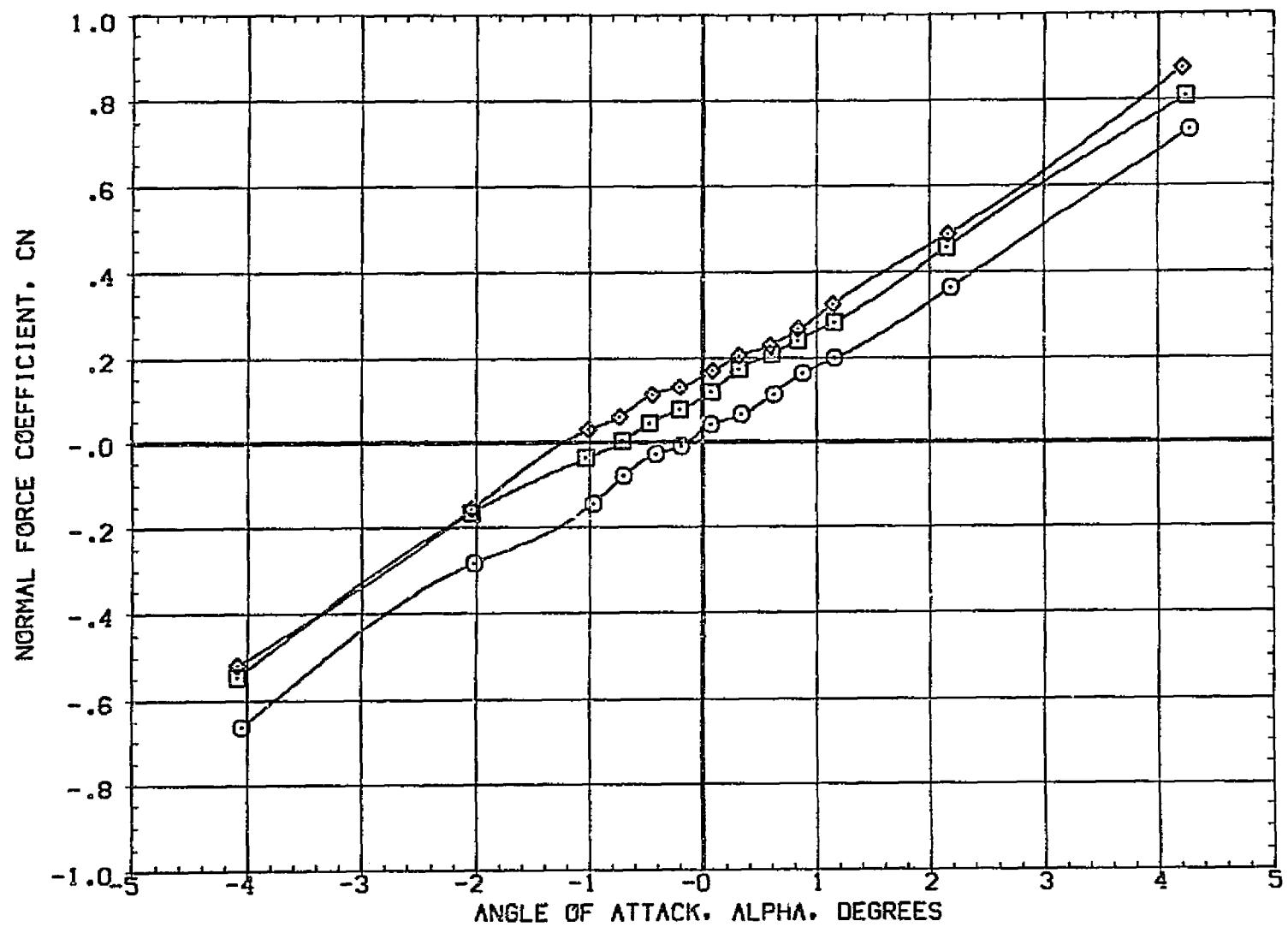


PITCH MODULATION EFFECT

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) O DCAT ARC 603/604 B2 F4 C  
 (BX1010) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◊ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	60.000	86.000	SREF .1100 SQ.FT.
.000	60.000	60.000	86.000	LREF 3750 FT.
.000	100.000	60.000	86.000	BREF 3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCNT

>S6



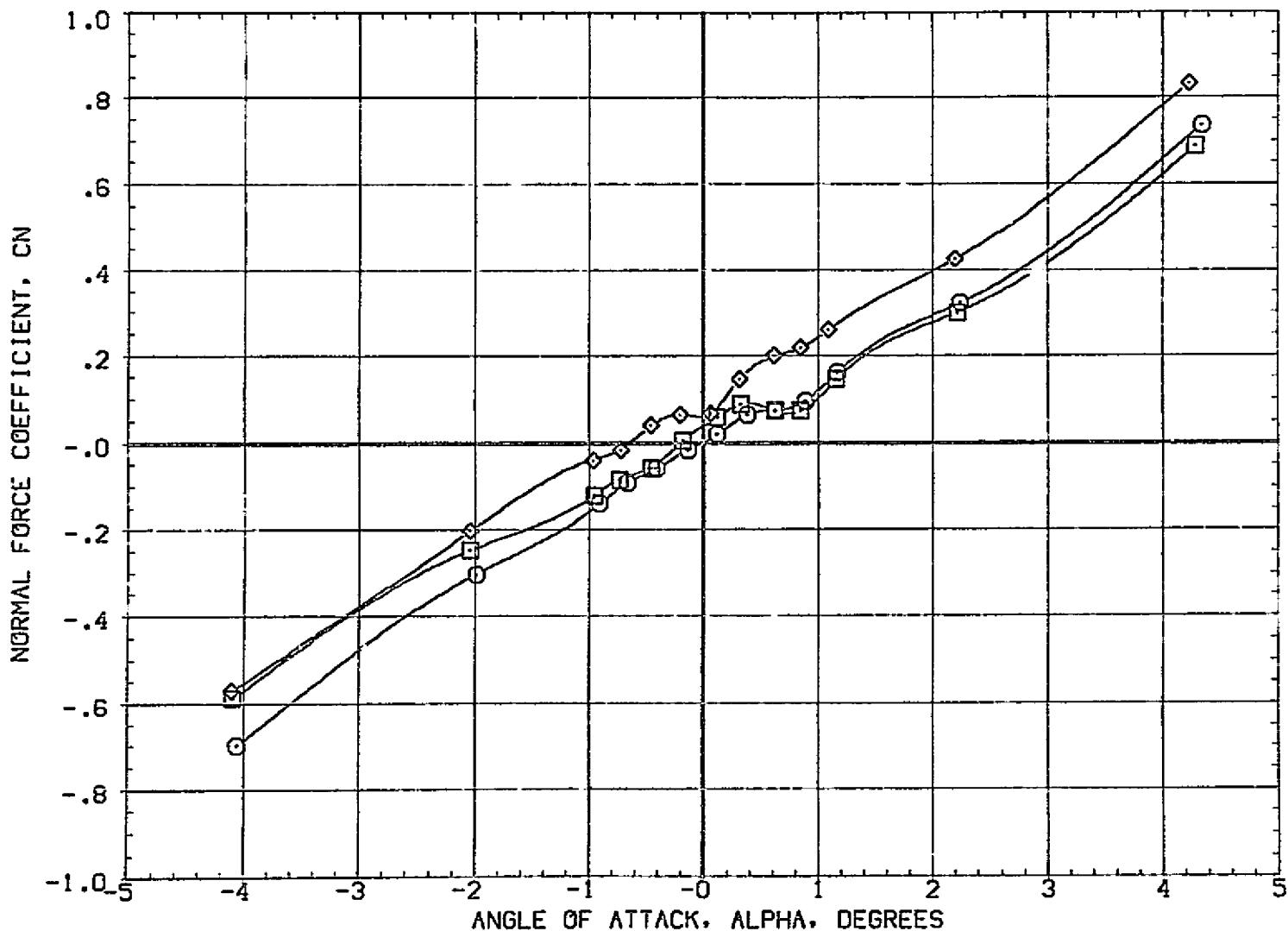
PITCH MODULATION EFFECT

(A)MACH = 0.64

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) ○ DCAT ARC 603/604 L F4 C  
 (BX1010) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◇ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PQJ/PF	REFERENCE	INFORMATION
.000	.000	60.000	86.000	SREF	.1100 SQ.FT.
.000	60.000	60.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



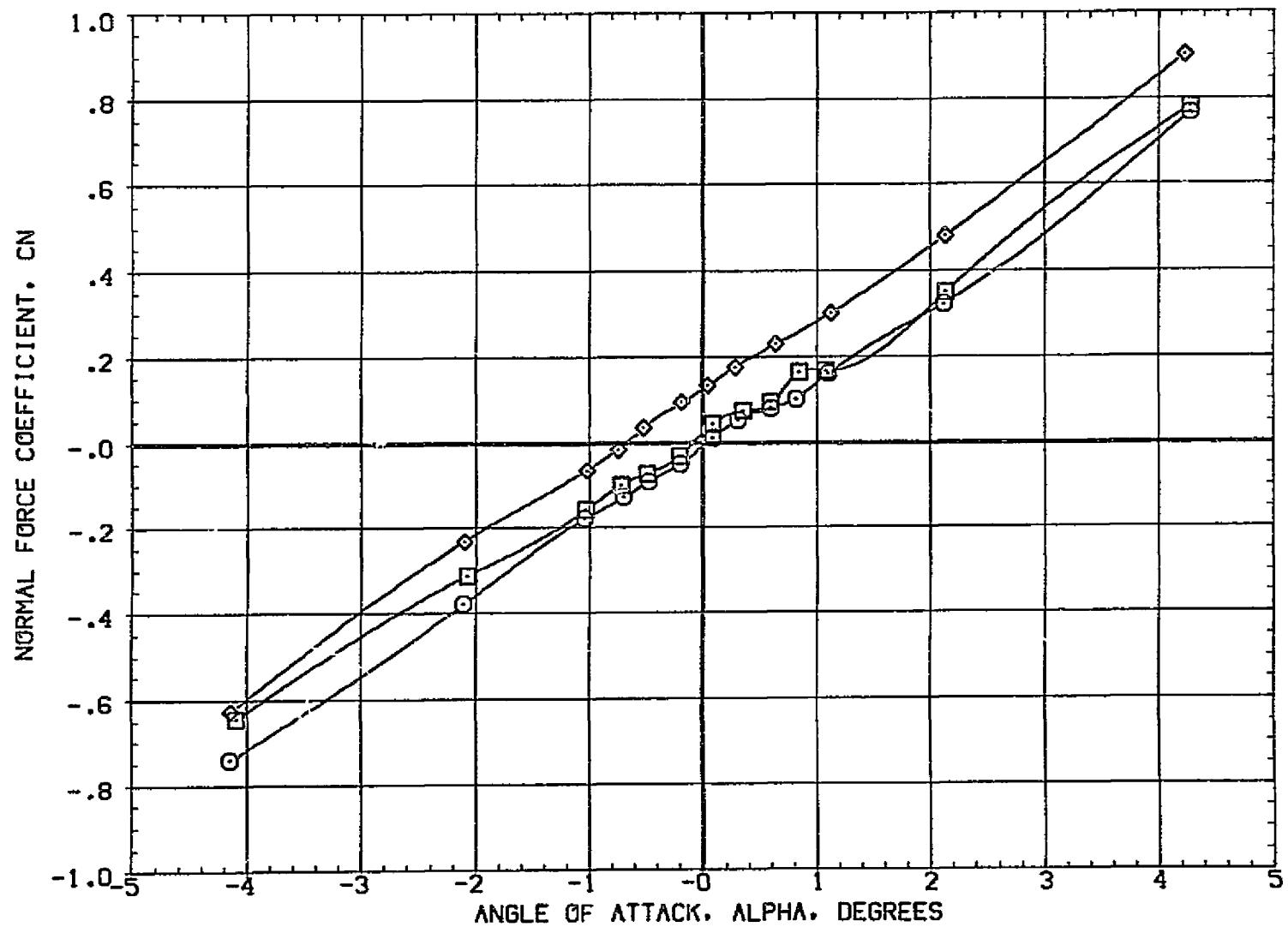
PITCH MODULATION EFFECT

(B)MACH = 0.80

PAGE 74

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) O DCAT ARC 603/604 B2 F4 C  
 (BX1010) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◊ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF	REFERENCE	INFORMATION
.000	.000	60.000	86.000	SREF	.1100 SQ.FT.
.000	60.000	60.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

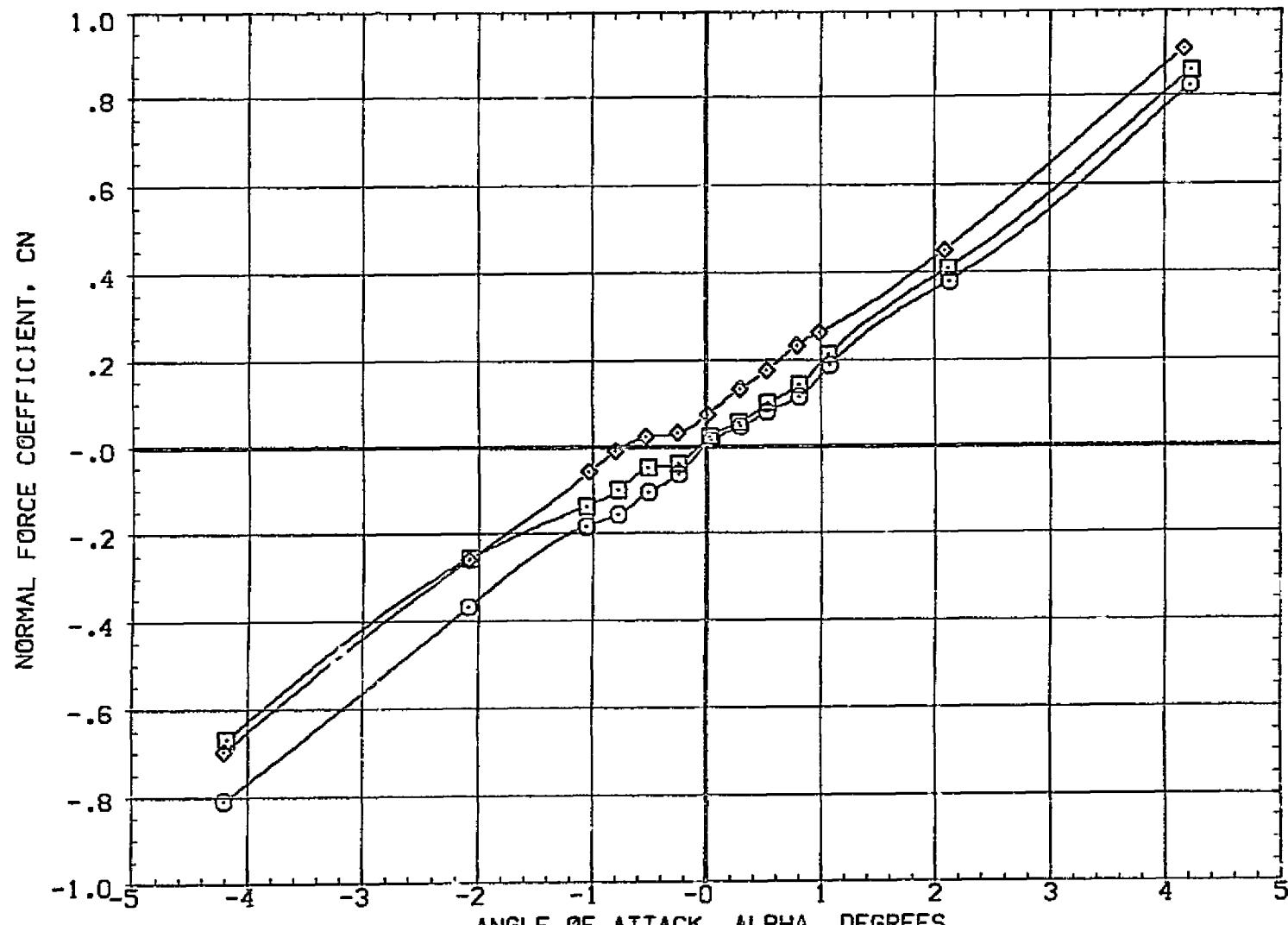


### PITCH MODULATION EFFECT

(C)MACH = 0.95

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) ◊ DCAT ARC 603/604 B2 F4 C  
 (BX1010) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◇ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PDJ/PF	REFERENCE	INFORMATION
.000	.000	60.000	86.000	SREF	.1100 SO.FT.
.000	60.000	60.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



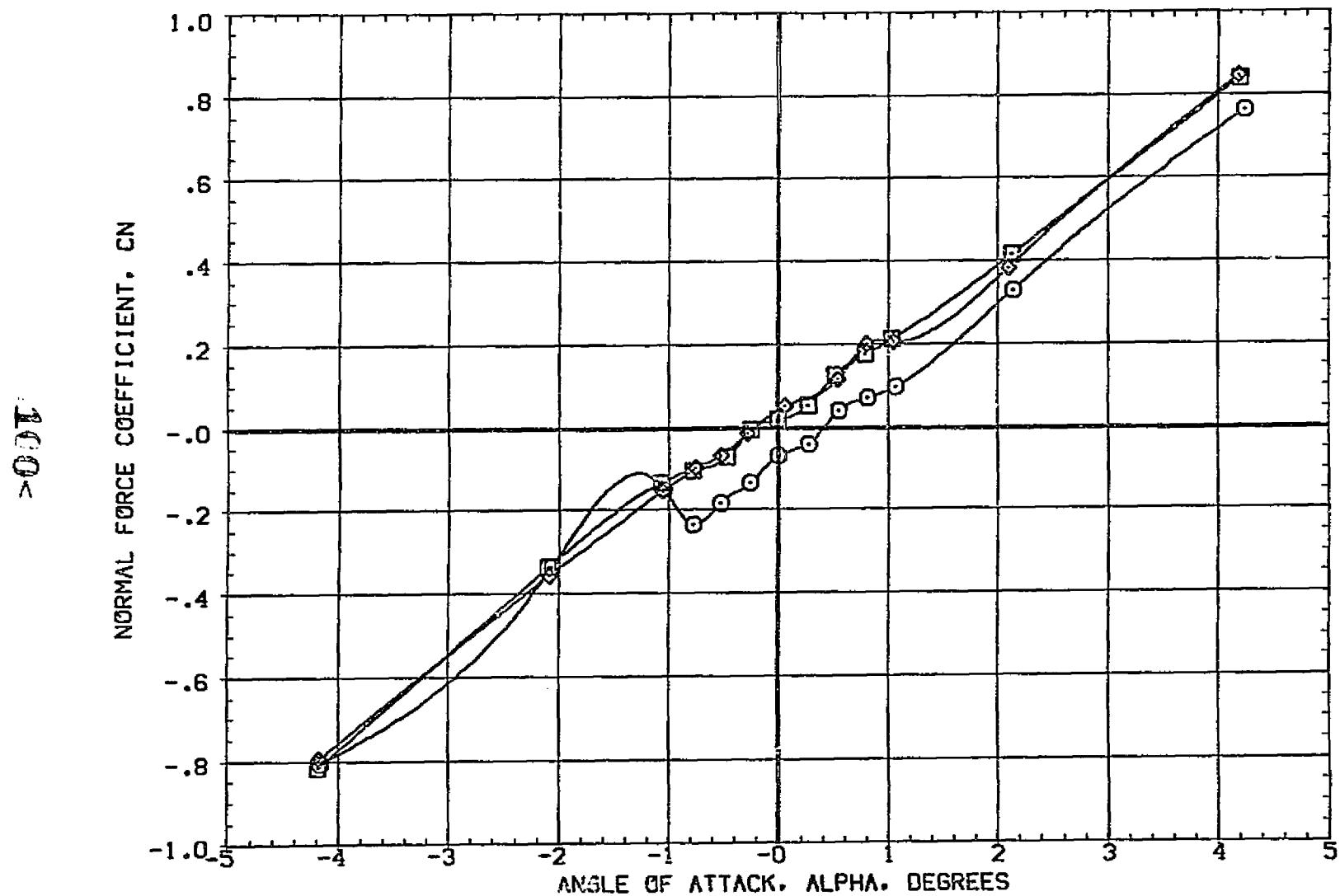
PITCH MODULATION EFFECT

MACH = 1.00

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) DCAT ARC 603/604 B2 F4 C  
 (BX1010) DCAT ARC 603/604 B2 F4 C  
 (BX1011) DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PGU/PF	REFERENCE INFORMATION
.000	.000	60.000	66.000	SREF .1100 SO.FT.
.000	60.000	60.000	66.000	LREF .3750 FT.
.000	100.000	60.000	66.000	BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT

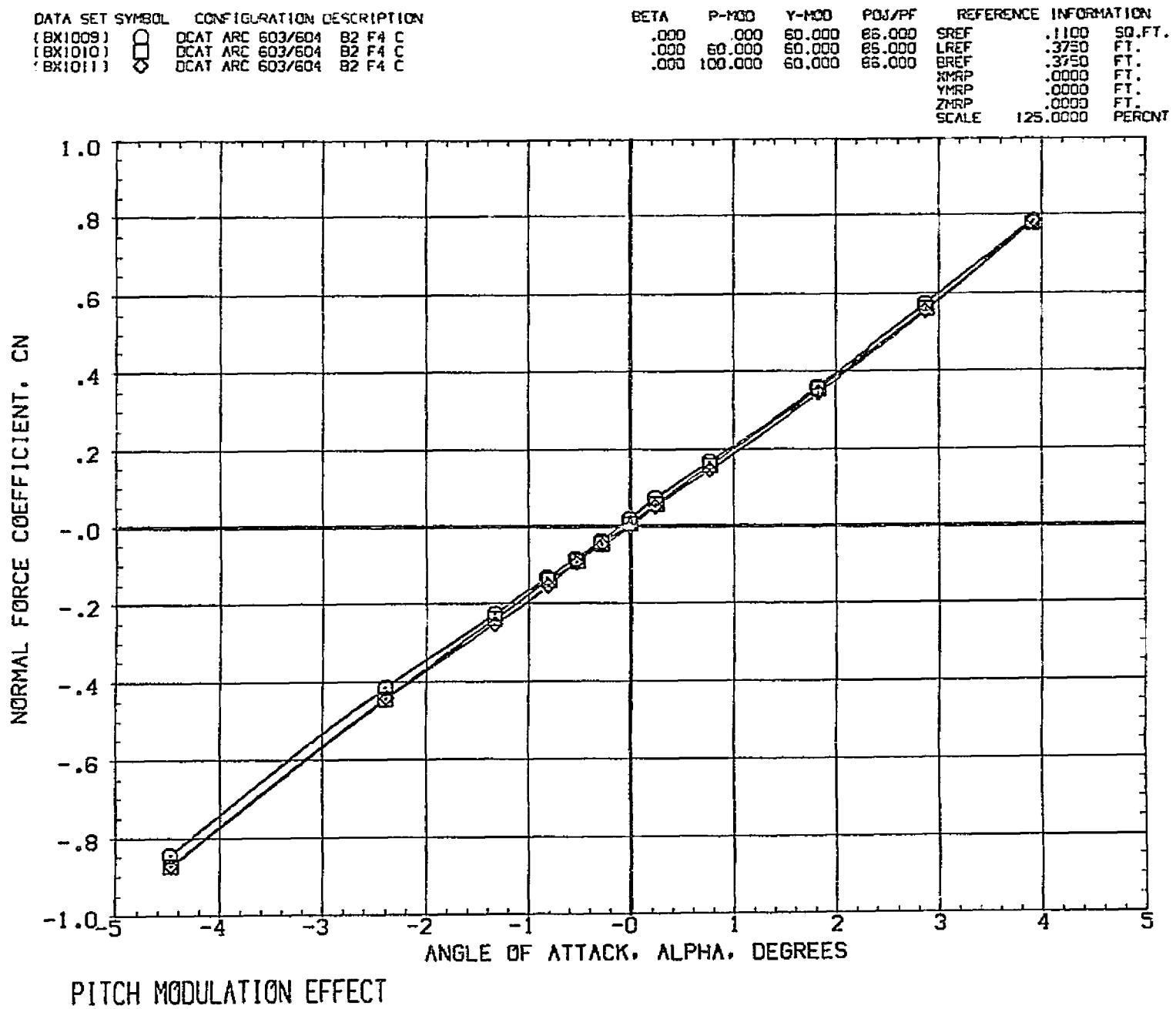


### PITCH MODULATION EFFECT

(E)MACH = 1.09

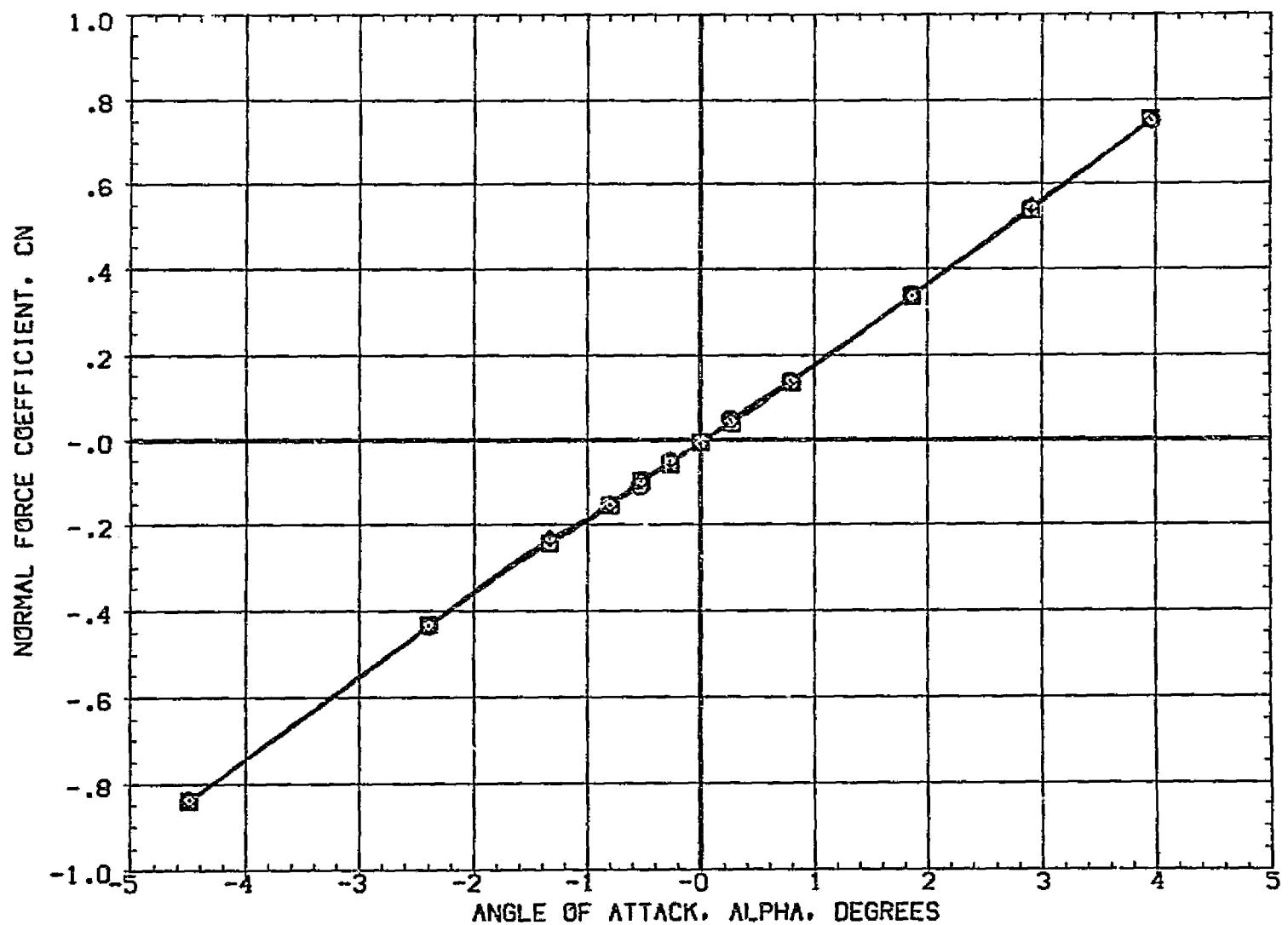
PAGE 77

>TOP



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) ○ DCAT ARC 603/604 B2 F4 C  
 (BX1010) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◊ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	60.000	86.000	SREF .1100 SQ.FT.
.000	60.000	60.000	86.000	LREF .3750 FT.
.000	160.000	60.000	86.000	BREF .3750 FT.
				XMRP .0000 FT.
				VMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



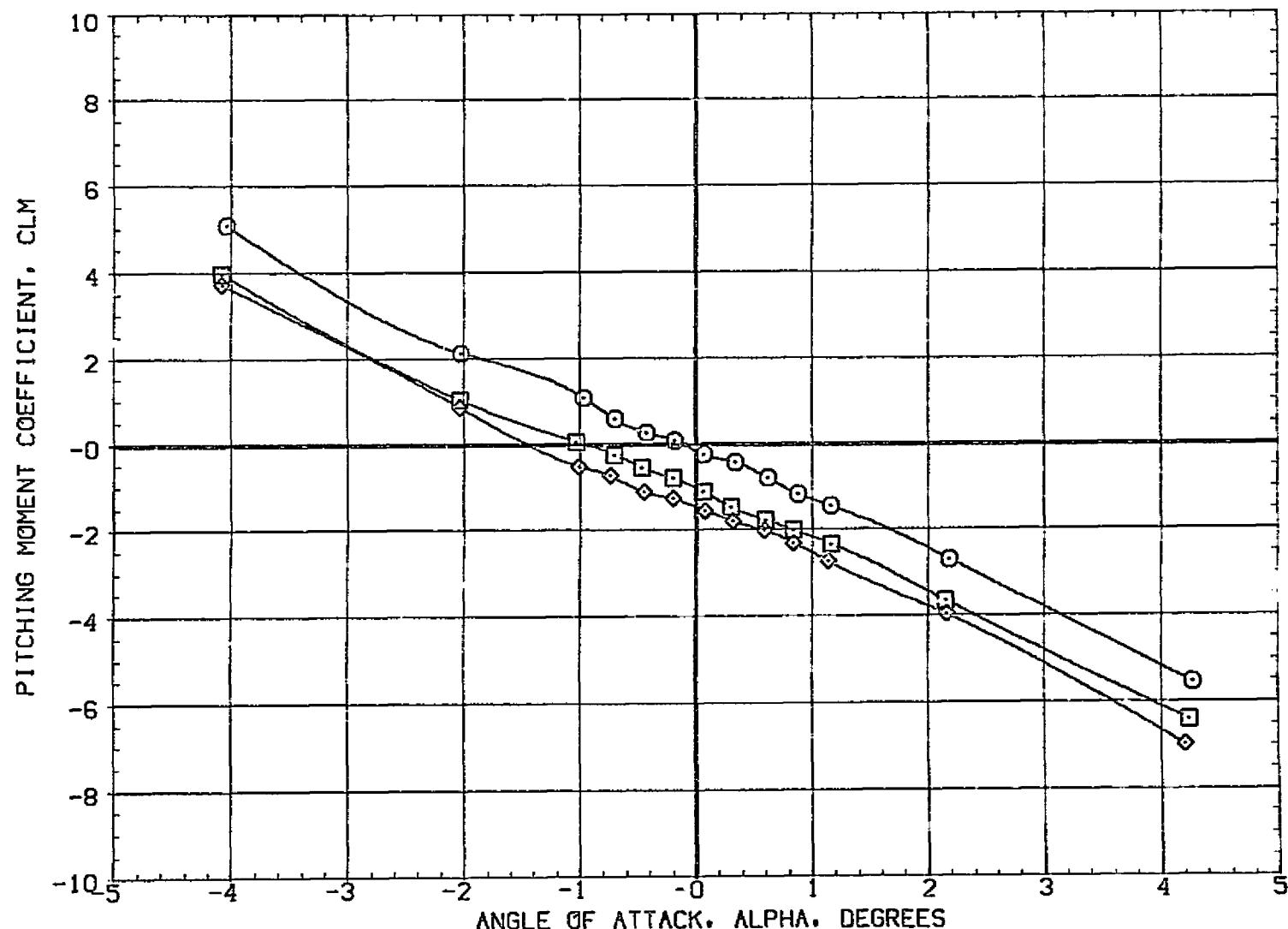
PITCH MODULATION EFFECT

(G)MACH = 1.80

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) ○ DCAT ARC 603/604 B2 F4 C  
 (BX1010) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◇ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	60.000	86.000	SREF	.1100 SO.FT.
.000	60.000	60.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



>SUT

PITCH MODULATION EFFECT

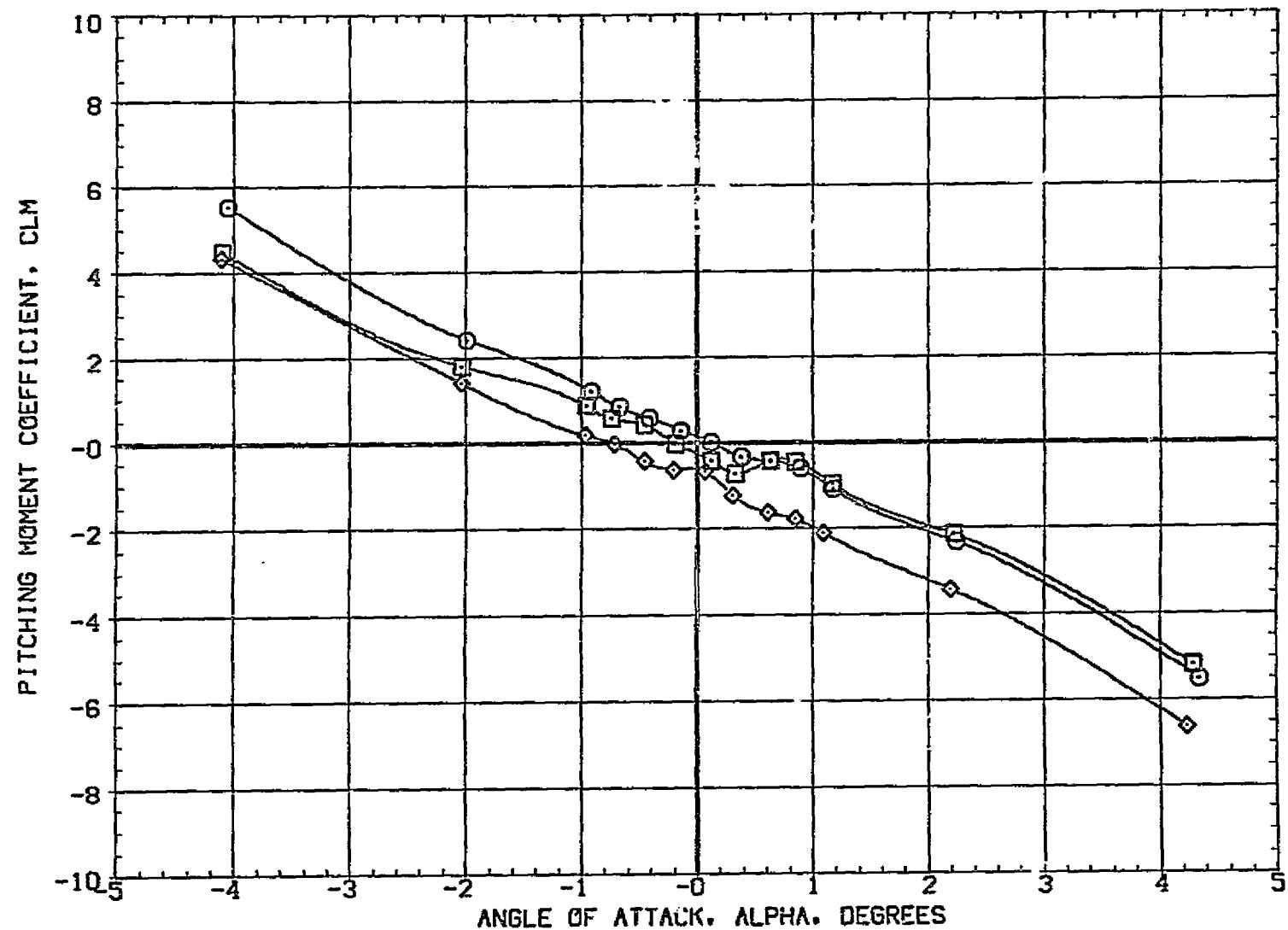
CALMACH - 0.64

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) O DCAT ARC 603/604 B2 F4 C  
 (BX1010) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◊ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PQ/PF	REFERENCE	INFORMATION
.000	.000	60.000	86.000	SREF	.1100 SQ.FT.
.000	60.000	60.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

> VOT



### PITCH MODULATION EFFECT

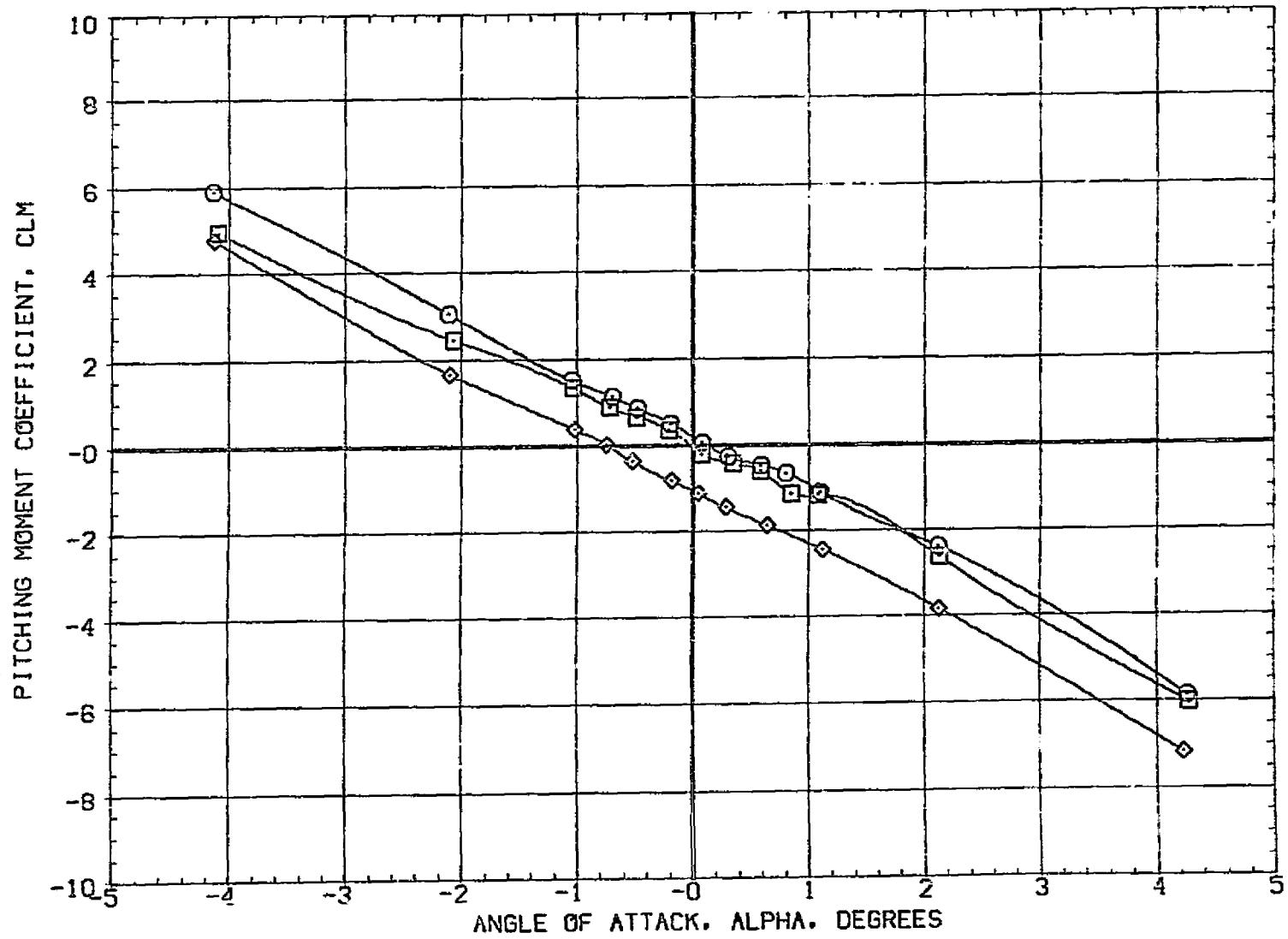
(B)MACH = 0.80

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) O DCAT ARC 603/604 B2 F4 C  
 (BX1010) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◊ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POU/PF	REFERENCE INFORMATION
.000	.000	60.000	86.000	SREF .1100 SQ.FT.
.000	60.000	60.000	86.000	LREF .3750 FT.
.000	100.000	60.000	86.000	BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT

>COT



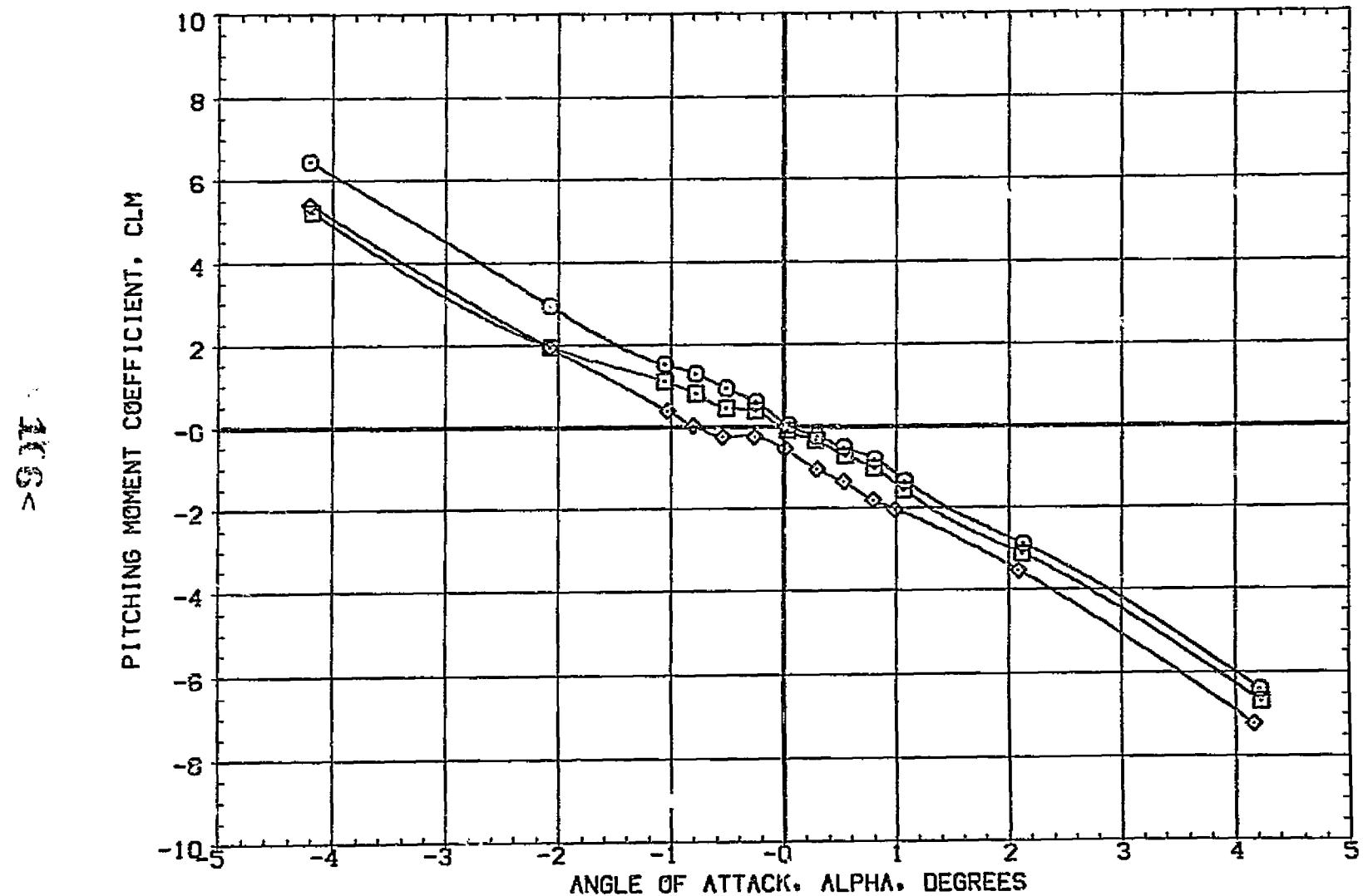
PITCH MODULATION EFFECT

COMPUTED 8-25

PAGE 22

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) ○ DCAT ARC 603/604 B2 F4 C  
 (BX1010) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◊ DCAT ARC 603/604 B2 F4 C

REFERENCE INFORMATION
SREF .1103 SQ.FT.
LREF .3750 FT.
BREF .3750 FT.
XMRP .0000 FT.
YMRP .0000 FT.
ZMRP .0000 FT.
SCALE 125.0000 PERCENT



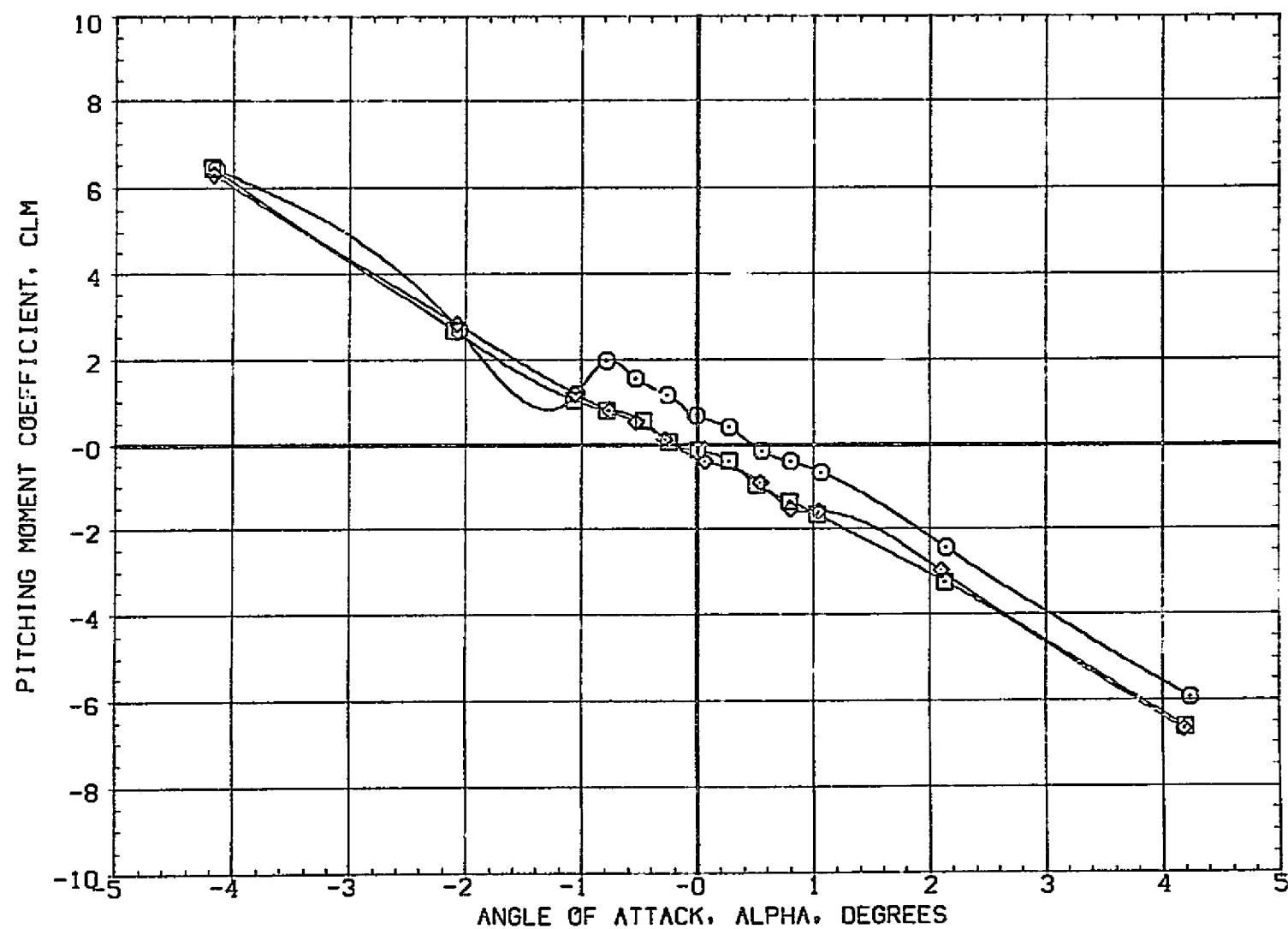
PITCH MODULATION EFFECT

(CDMACH = 1.00)

PAGE 83

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) O DCAT ARC 603/604 B2 F4 C  
 (BX1010) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◊ DCAT ARC 603/604 B2 F4 C

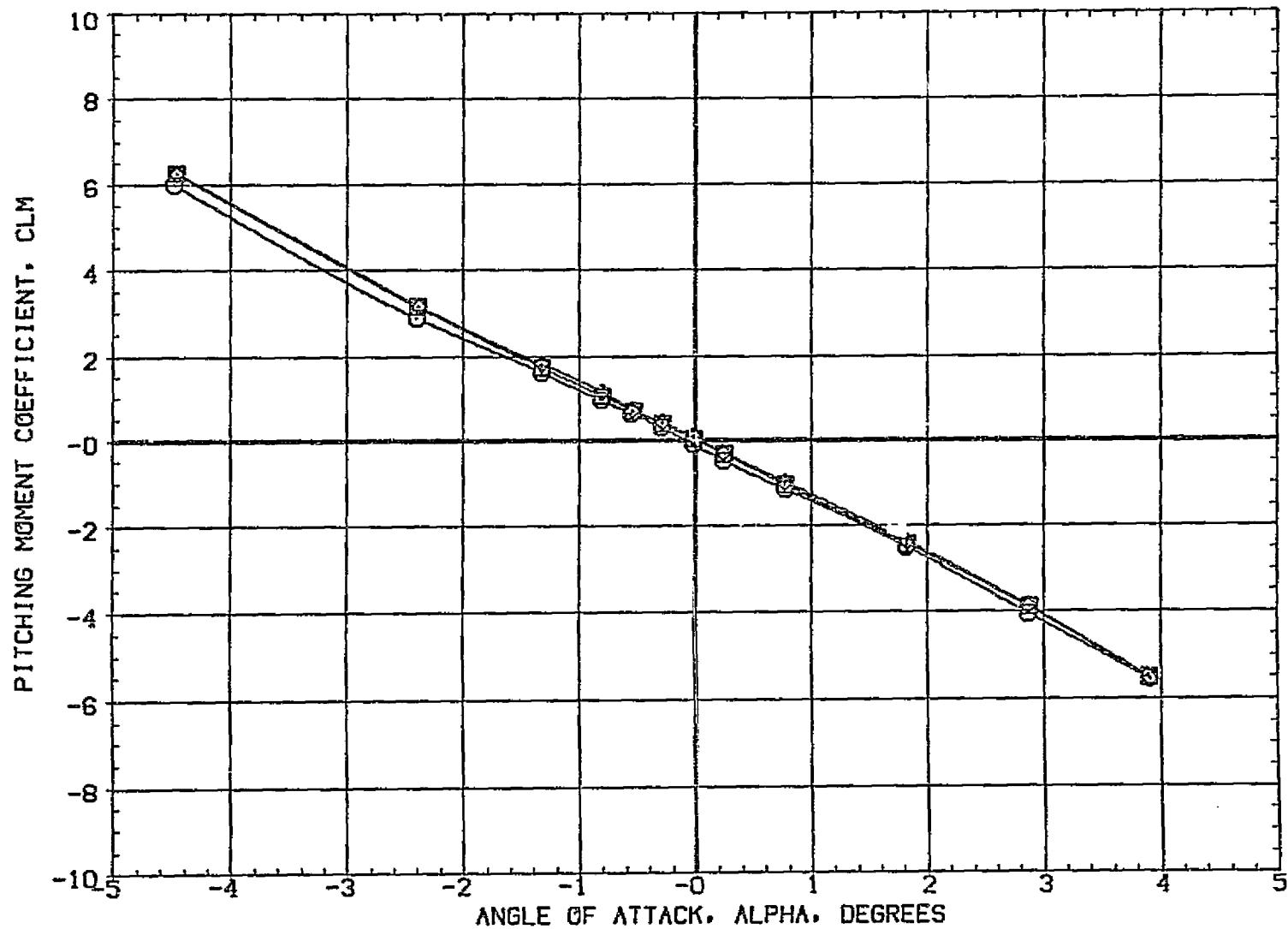
BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	.000	60.000	26.000	SREF	.1100 SQ.FT.
.000	60.000	60.000	26.000	LREF	.3750 FT.
.000	100.000	60.000	26.000	EREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



PITCH MODULATION EFFECT

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) D CAT ARC 603/604 B2 F4 C  
 (BX1010) D CAT ARC 603/604 B2 F4 C  
 (BX1011) D CAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	60.000	86.000	SREF .1100 SQ.FT.
.000	60.000	60.000	86.000	LREF .3750 FT.
.000	100.000	60.000	86.000	BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



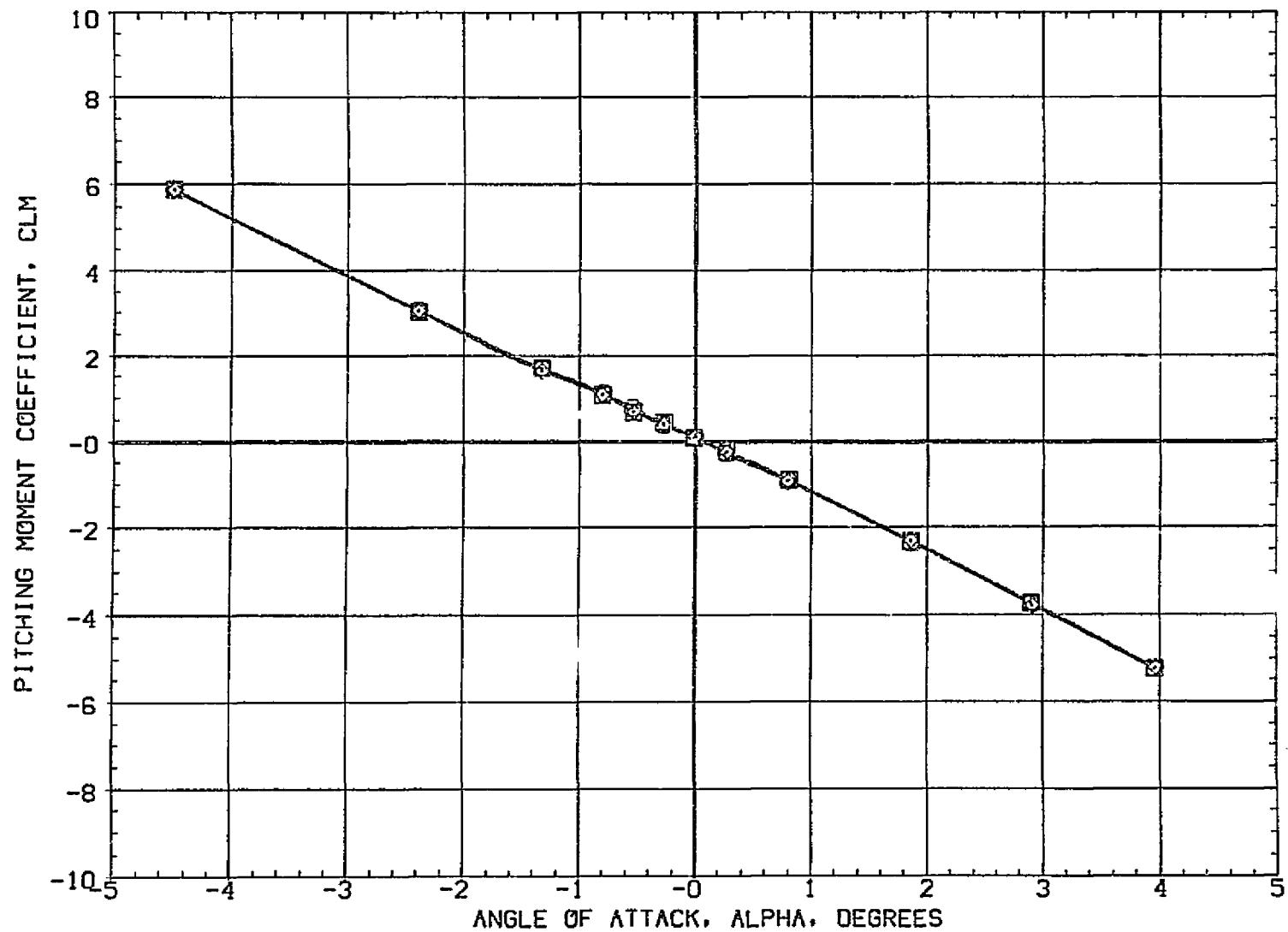
PITCH MODULATION EFFECT

(F)MACH = 1.56

PAGE 85

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) O DCAT ARC 603/604 B2 F4 C  
 (BX1010) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) △ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	60.000	86.000	SREF	1:00 SQ.FT.
.000	60.000	60.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



>GJT

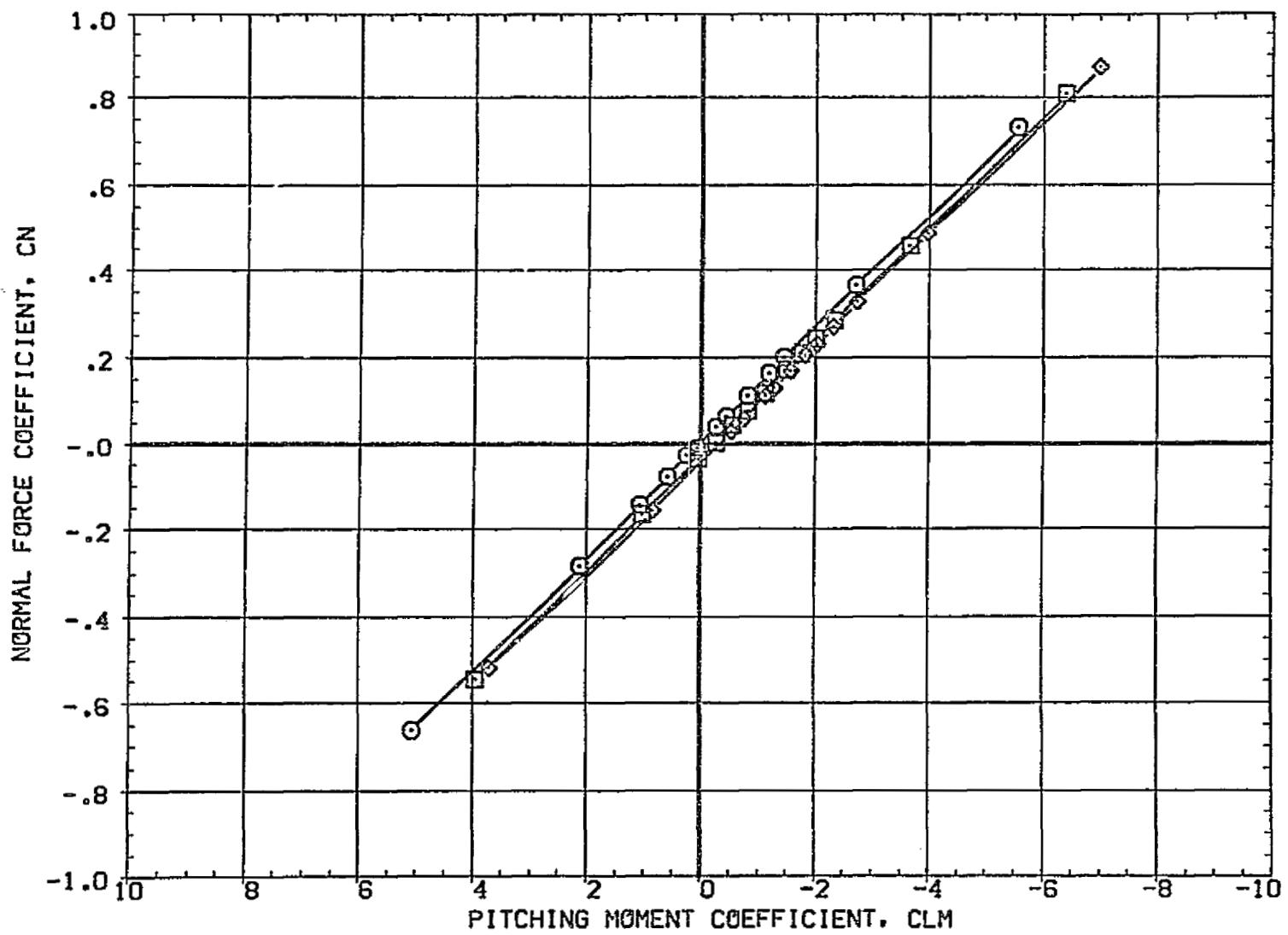
PITCH MODULATION EFFECT

(G)MAC = 1.80

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) DCAT ARC 603/604 B2 F4 C  
 (BX1010) DCAT ARC 603/604 B2 F4 C  
 (BX1011) DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF	REFERENCE	INFORMATION
.000	.000	60.000	86.000	SREF	.1100 SQ.FT.
.000	60.000	60.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



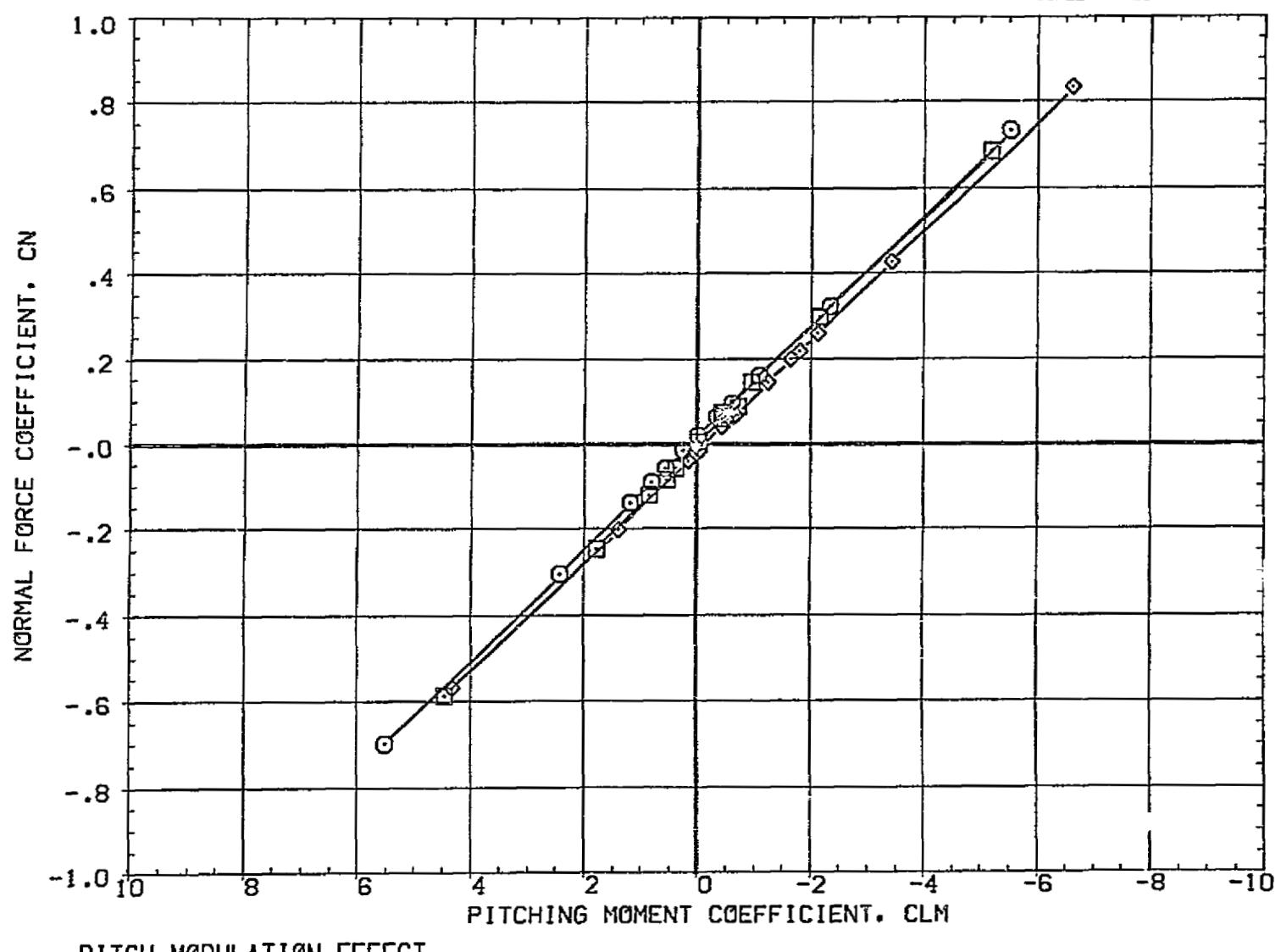
PITCH MODULATION EFFECT

(A)MACH = 0.64

PAGE 87

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) DCAT ARC 603/604 B2 F4 C  
 (BX1010) DCAT ARC 603/604 B2 F4 C  
 (BX1011) DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	60.000	86.000	SREF	.1100 SQ.FT.
.000	60.000	60.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT

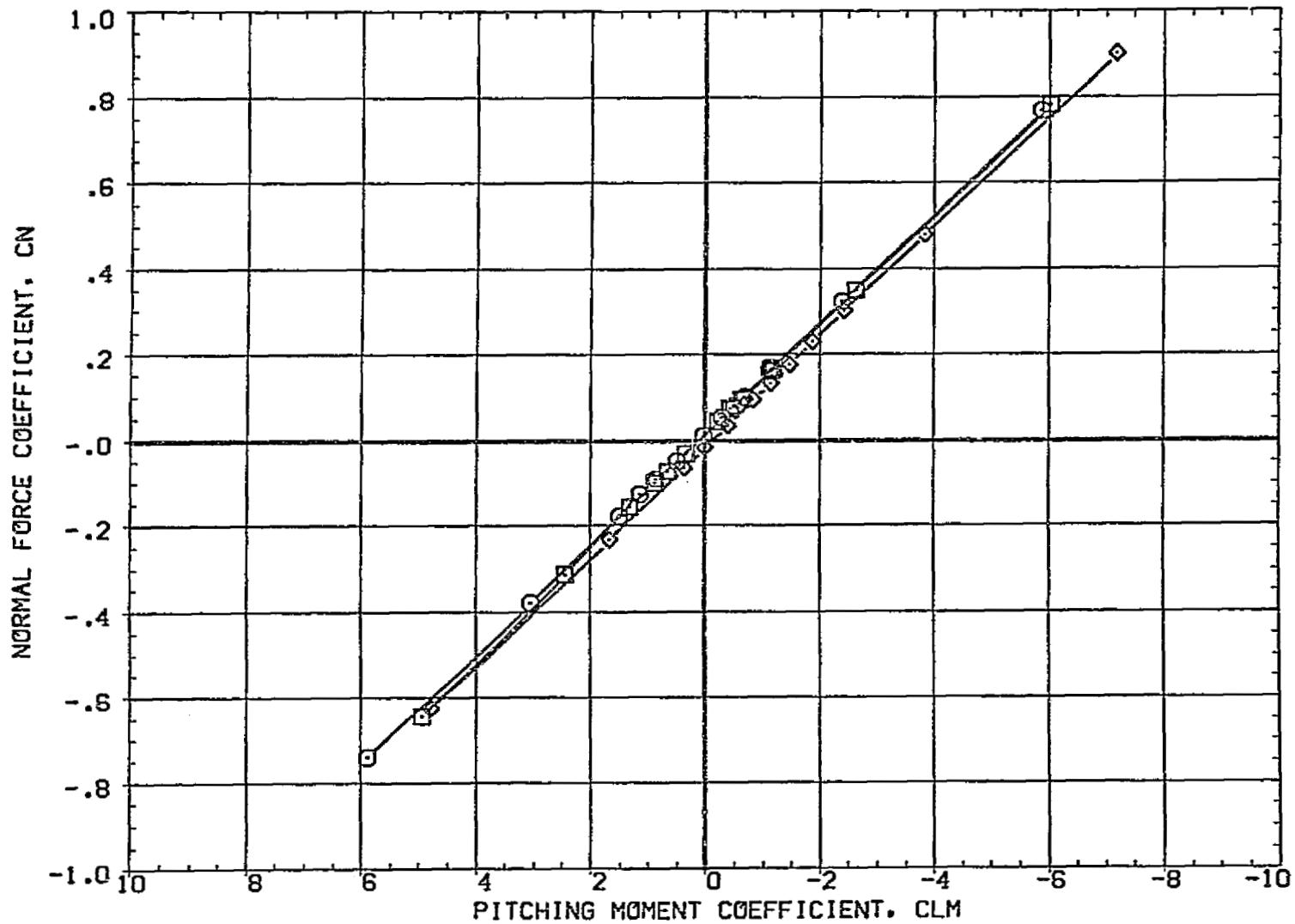


PITCH MODULATION EFFECT

>VVV

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) O DCAT ARC 603/604 B2 F4 C  
 (BX1010) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◊ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF	REFERENCE INFORMATION
.000	.000	60.000	86.000	SREF .1100 SQ.FT.
.000	60.000	60.000	86.000	LREF .3750 FT.
.000	100.000	60.000	86.000	BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



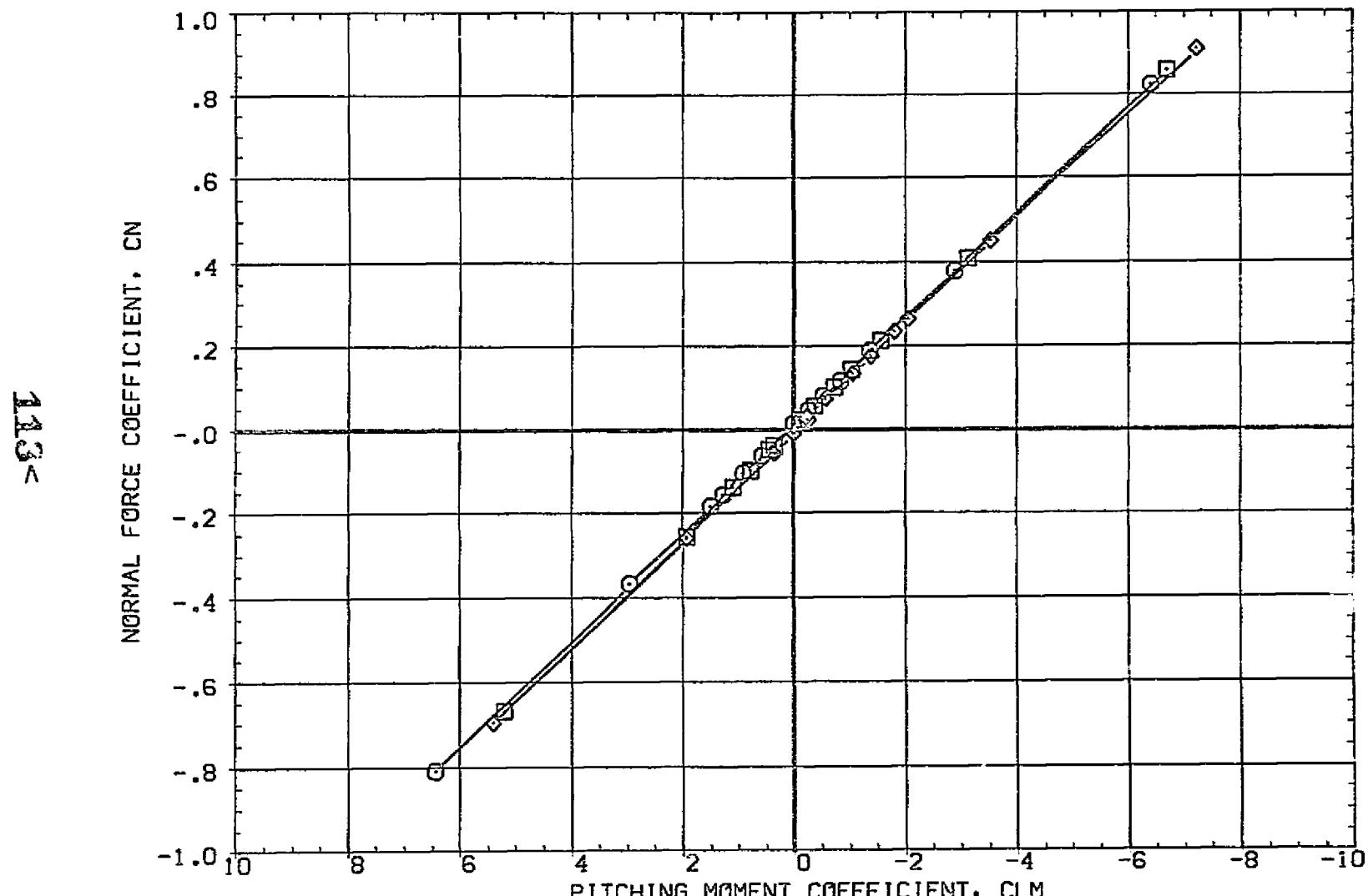
PITCH MODULATION EFFECT

(C)MACH = 0.95

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009)  $\square$  DCAT ARC 603/604 B2 F4 C  
 (BX1010)  $\square$  DCAT ARC 603/604 B2 F4 C  
 (BX1011)  $\diamond$  DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	60.000	86.000	SREF .1100 SQ.FT.
.000	60.000	60.000	86.000	LREF .3750 FT.
.000	100.000	60.000	86.000	BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



PITCH MODULATION EFFECT

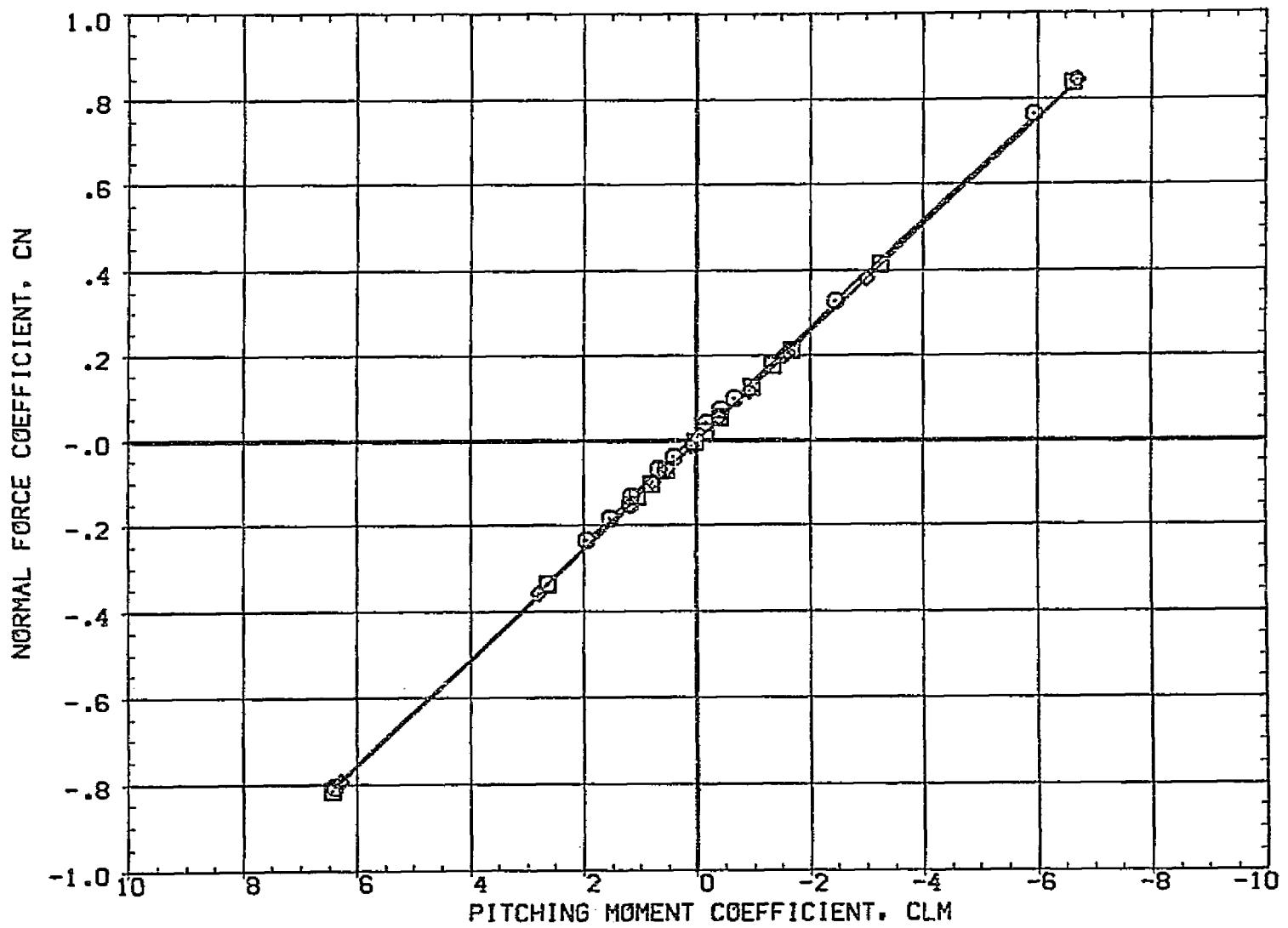
(D)MACH = 1.00

PAGE 90

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) ◻ DCAT ARC 603/604 B2 F4 C  
 (BX1010) ◻ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◻ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	60.000	66.000	SREF	1100 SQ.FT.
.000	60.000	60.000	66.000	LREF	3751 FT.
.000	100.000	60.000	66.000	BREF	3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

>VLT



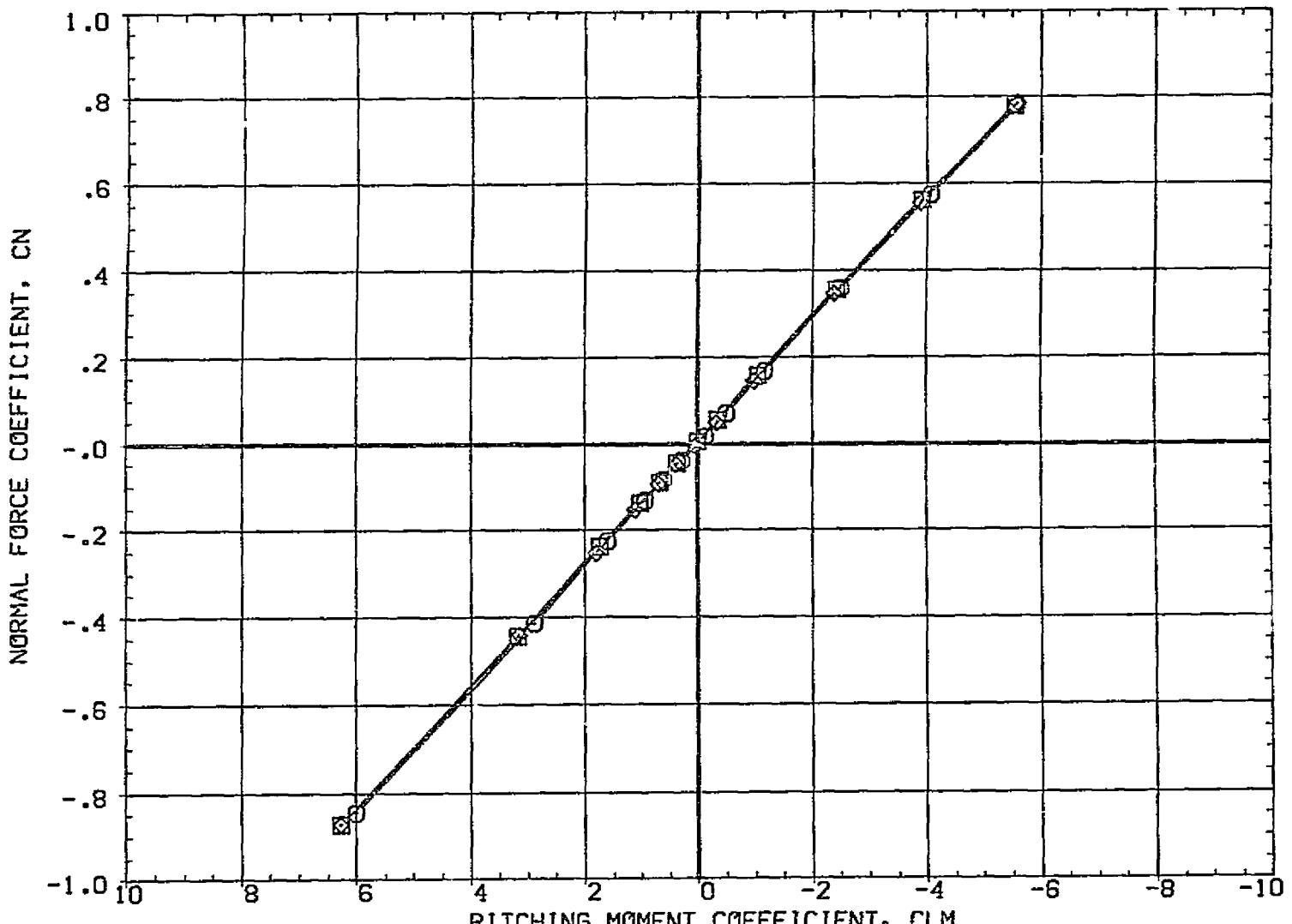
PITCH MODULATION EFFECT

(E)MACH = 1.09

PAGE 91

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) O DCAT ARC 603/604 B2 F4 C  
 (BX1010) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ▽ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	.000	60.000	86.000	SREF	:1100 SD.FT.
.000	60.000	60.000	86.000	LREF	:3750 FT.
.000	100.000	60.000	86.000	EREF	:3750 FT.
				XMRP	:0000 FT.
				YMRP	:0000 FT.
				ZMRP	:0000 FT.
				SCALE	125.0000 PERCNT



PITCH MODULATION EFFECT

(F)MACH = 1.56

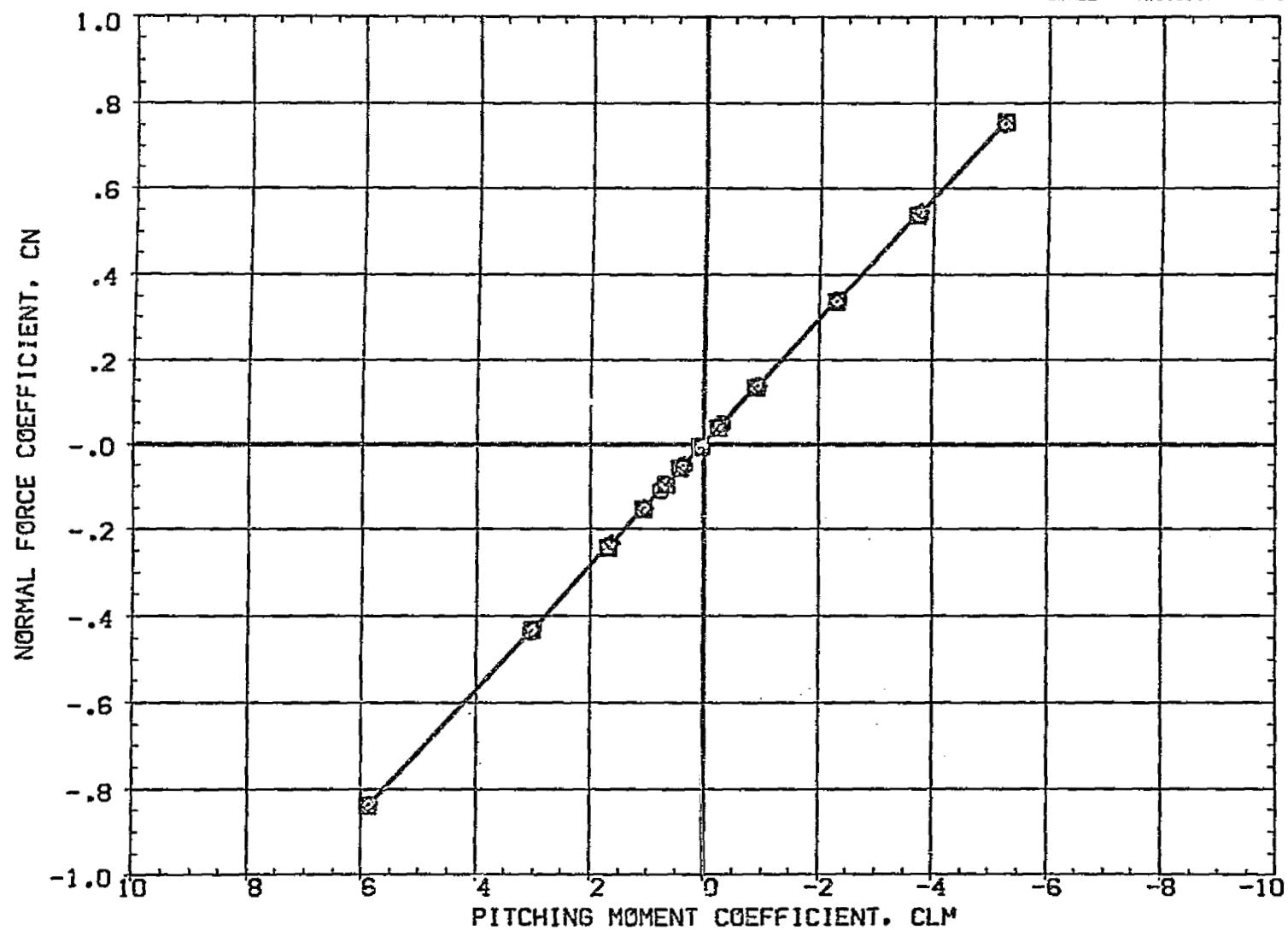
PAGE 92

145

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) D DCAT ARC 603/604 B2 F4 C  
 (BX1010) L DCAT ARC 603/604 B2 F4 C  
 (BX1011) V DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/PF	REFERENCE	INFORMATION
.000	.000	60.000	86.000	SREF	.1100 SQ.FT.
.000	60.000	60.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

377



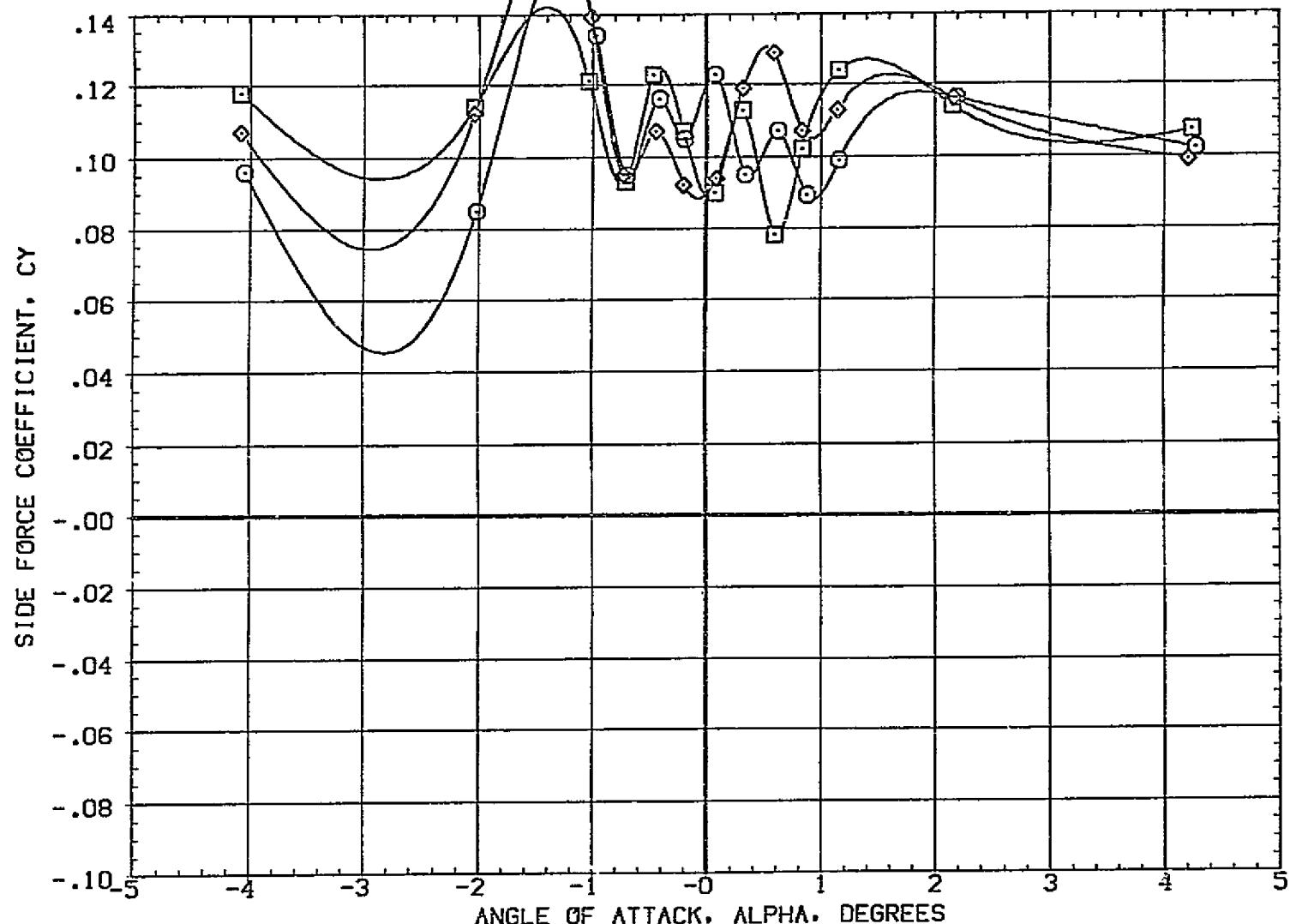
### PITCH MODULATION EFFECT

(G)MACH = 1.80

PAGE 93

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) DDCAT ARC 603/604 C2 F4 C  
 (BX1010) DDCAT ARC 603/604 C2 F4 C  
 (BX1011) DDCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	60.000	66.000	SREF	.1100 SD.FT.
.000	50.000	60.000	66.000	LREF	.3750 FT.
.000	100.000	60.000	66.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



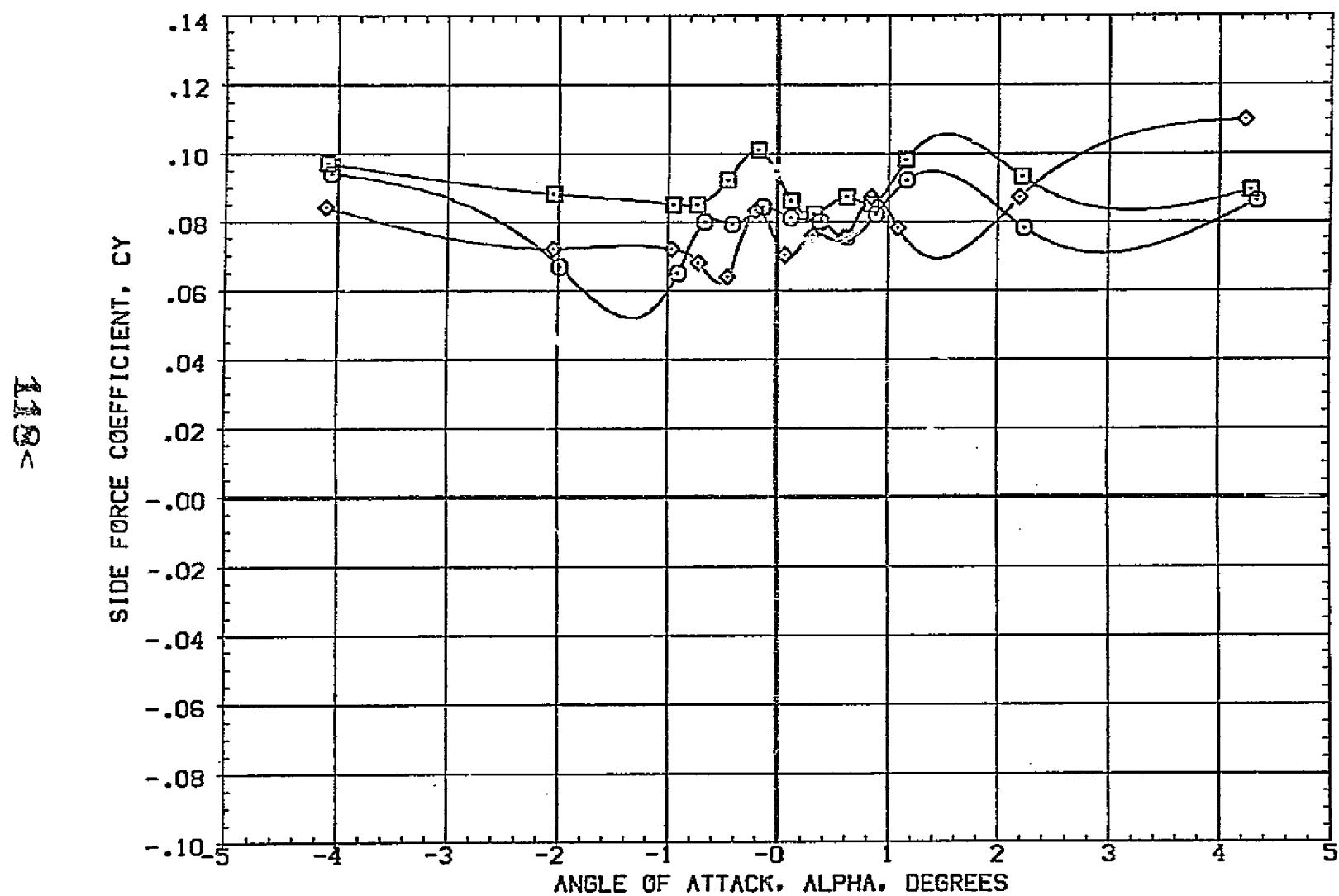
PITCH MODULATION EFFECT

(A)MACH = 0.64

PAGE 94

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) O DCAT ARC 603/604 B2 F4 C  
 (BX1010) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◊ DCAT ARC 603/604 B2 F4 C

BETA	P-HOD	Y-HOD	P0J/PF	REFERENCE INFORMATION
.000	.000	60.000	66.000	SREF .1100 SQ.FT.
.000	60.000	60.000	66.000	LREF .3750 FT.
.000	100.000	60.000	66.000	BREF .3750 FT.
				XHREF .0000 FT.
				YHREF .0000 FT.
				ZHREF .0000 FT.
				SCALE 125.0000 PERCENT



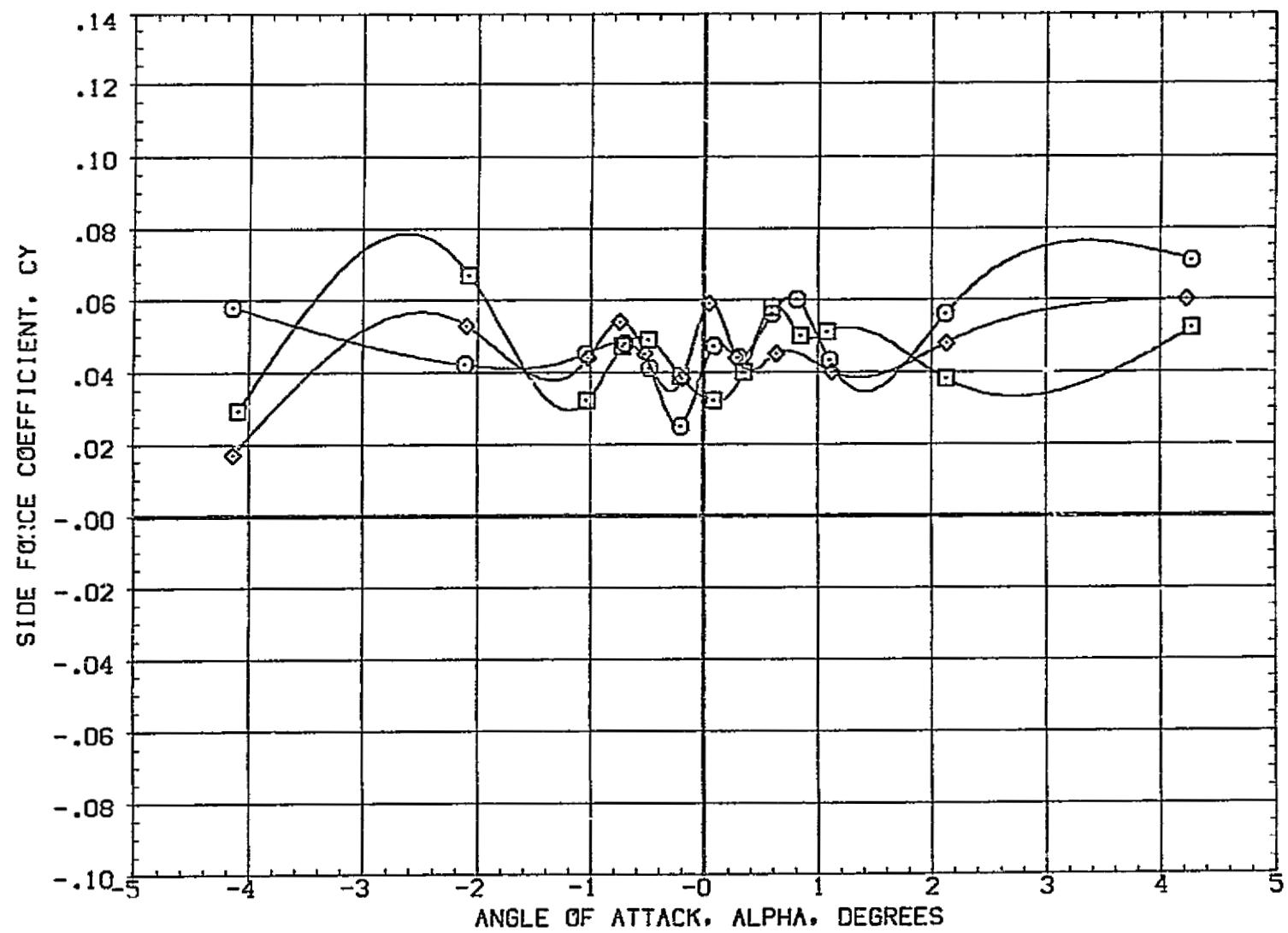
PITCH MODULATION EFFECT

(B)MACH = 0.80

PAGE 95

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) O DCAT ARC 603/604 R2 F4 C  
 (BX1010) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◊ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	60.000	86.000	SREF	.1100 SD.FT.
.000	60.000	60.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



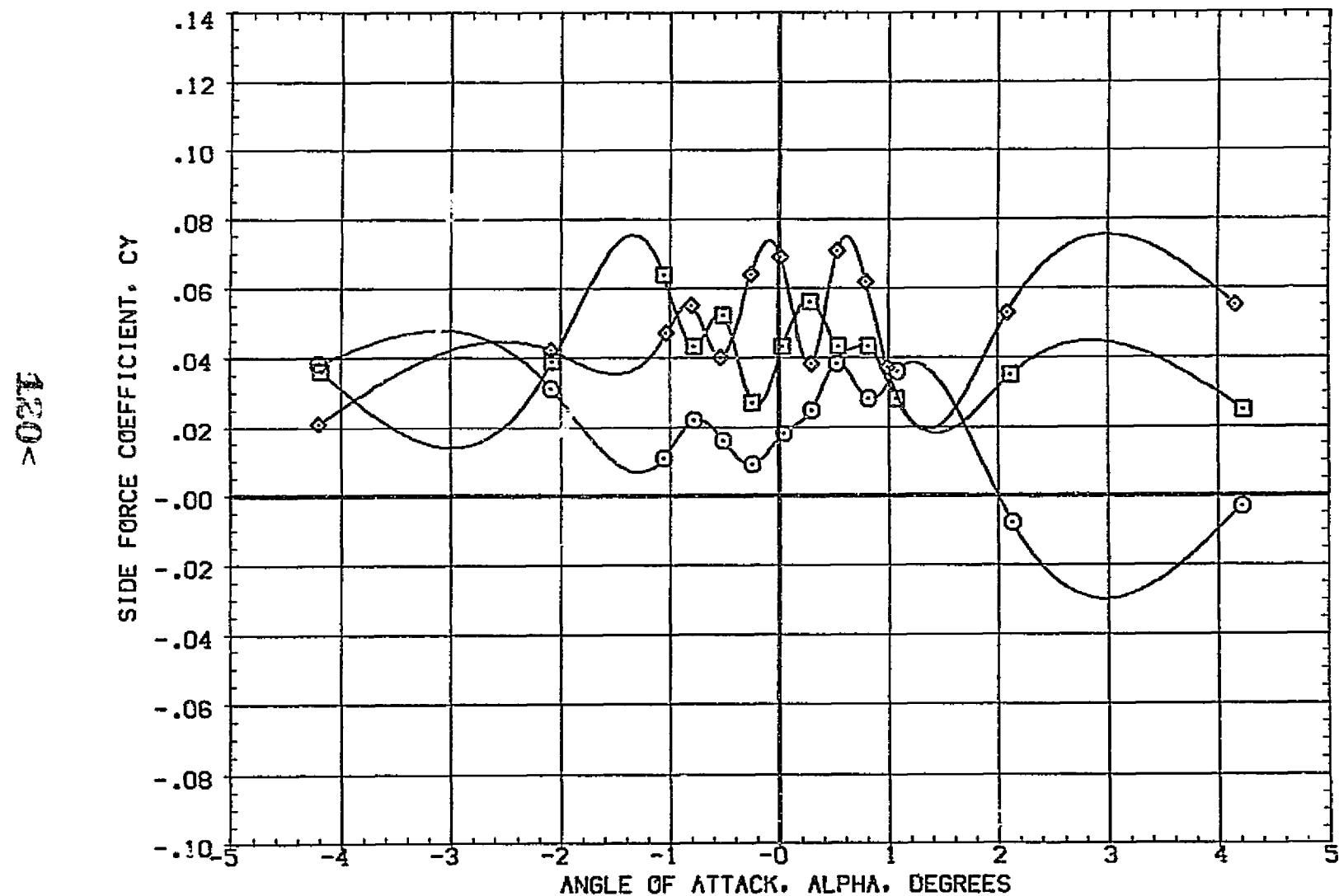
PITCH MODULATION EFFECT

(C)MACH = 0.95

PAGE 96

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) O DCAT ARC 603/604 B2 F4 C  
 (BX1010) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◇ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PG/PF	REFERENCE INFORMATION
.000	.000	60.000	66.000	SREF .1100 50.FT.
.000	60.000	60.000	66.000	LREF .3750 FT.
.000	100.000	60.000	66.000	BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



PITCH MODULATION EFFECT

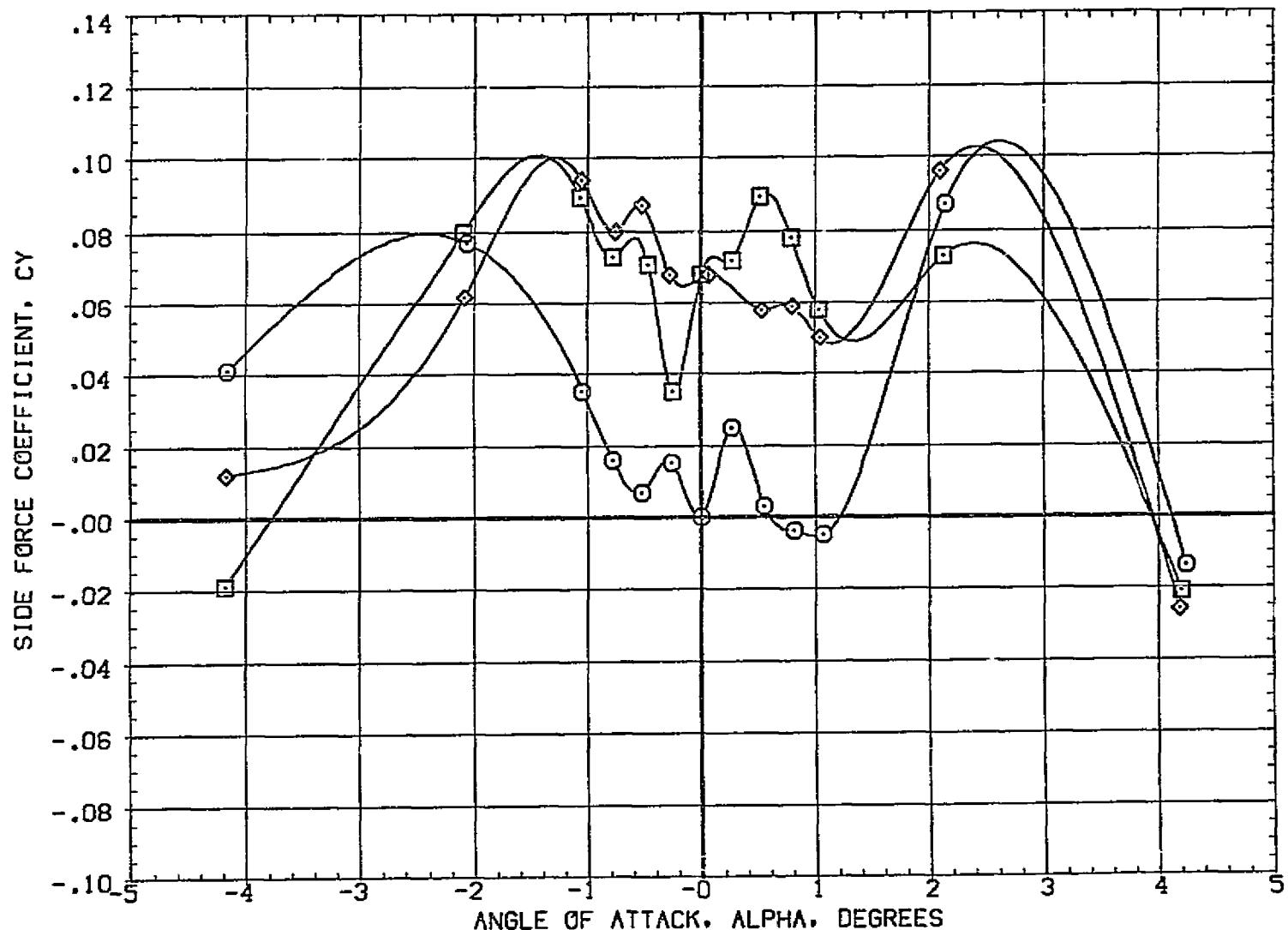
(D)MACH = 1.00

PAGE 97

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) O DCAT ARC 603/604 B2 F4 C  
 (BX1010) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◇ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POU/PF	REFERENCE	INFORMATION
.000	.000	60.000	85.000	SREF	.1100 SQ.FT.
.000	60.000	60.000	85.000	LREF	.3750 FT.
.000	100.000	60.000	85.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT

>T2T<



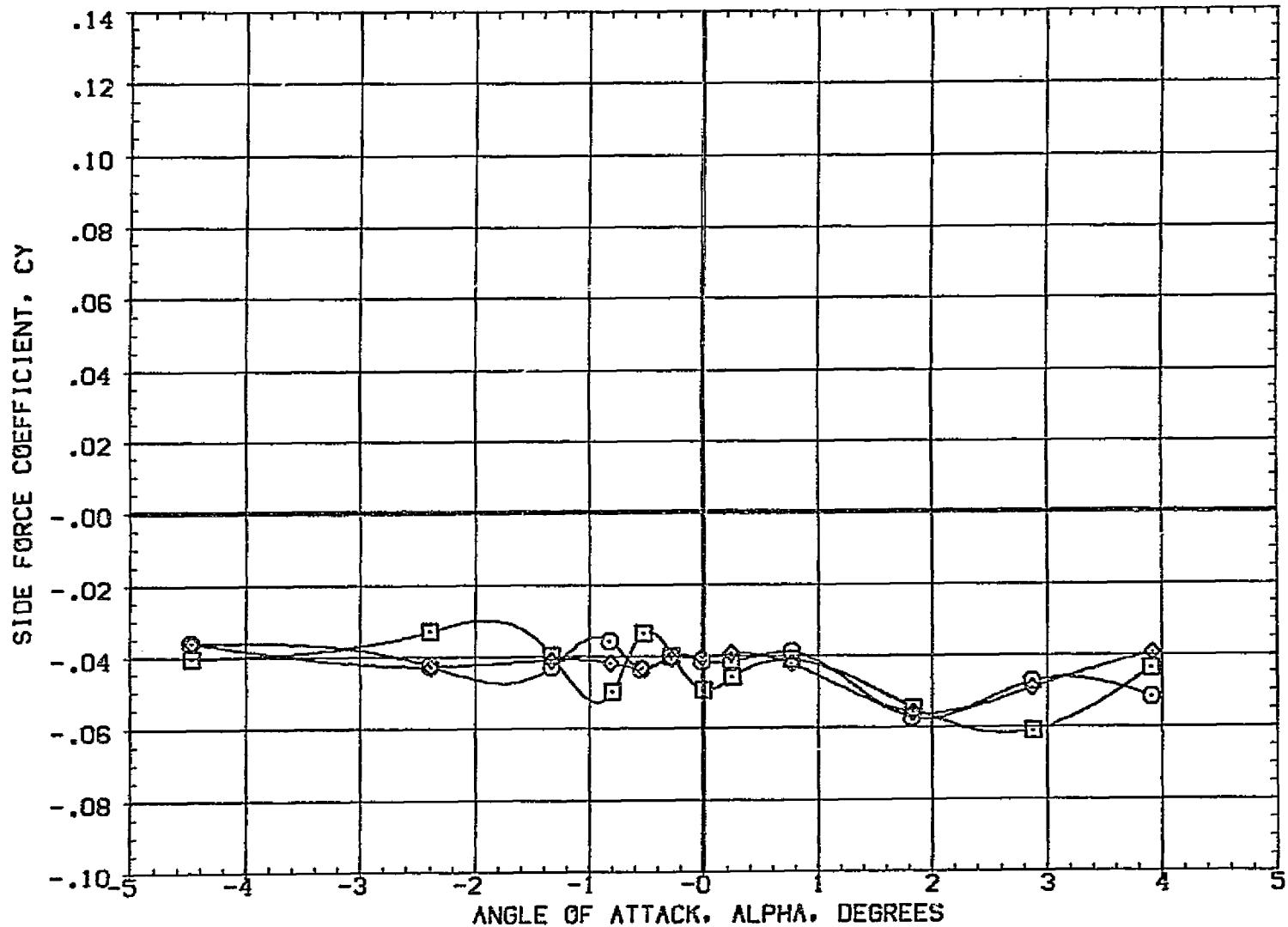
### PITCH MODULATION EFFECT

(E)MACH = 1.09

PAGE 98

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1009) O DCAT ARC 603/6C1 B2 F4 C  
 (BX1010) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◊ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PW/PF	REFERENCE	INFORMATION
.000	.000	60.000	86.000	SREF	.1100 SQ.FT.
.000	60.000	60.000	85.000	LREF	.3750 FT.
.000	100.000	60.000	85.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



PITCH MODULATION EFFECT

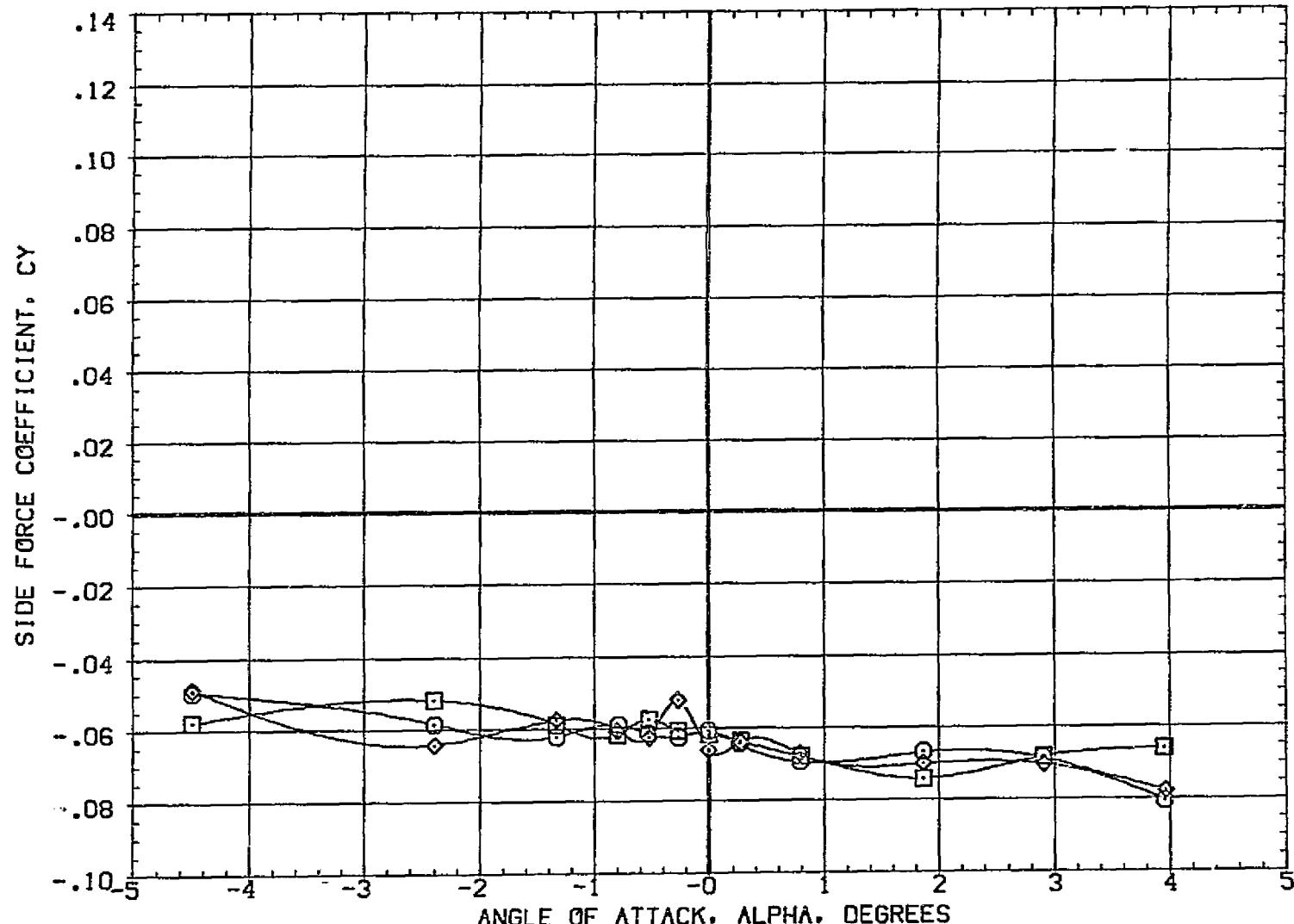
(F)MACH = 1.56

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>222T

>C&T

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
(BX1003)	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000	SREF	.1100 SO.FT.
(BX1010)	DCAT ARC 603/604 B2 F4 CC	.000	60.000	60.000	86.000	LREF	.3750 FT.
(BX1011)	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000	BREF	.3750 FT.
						XMRP	.0000 FT.
						YMRP	.0000 FT.
						ZMRP	.0000 FT.
						SCALE	125.0000 PERCNT



PITCH MODULATION EFFECT

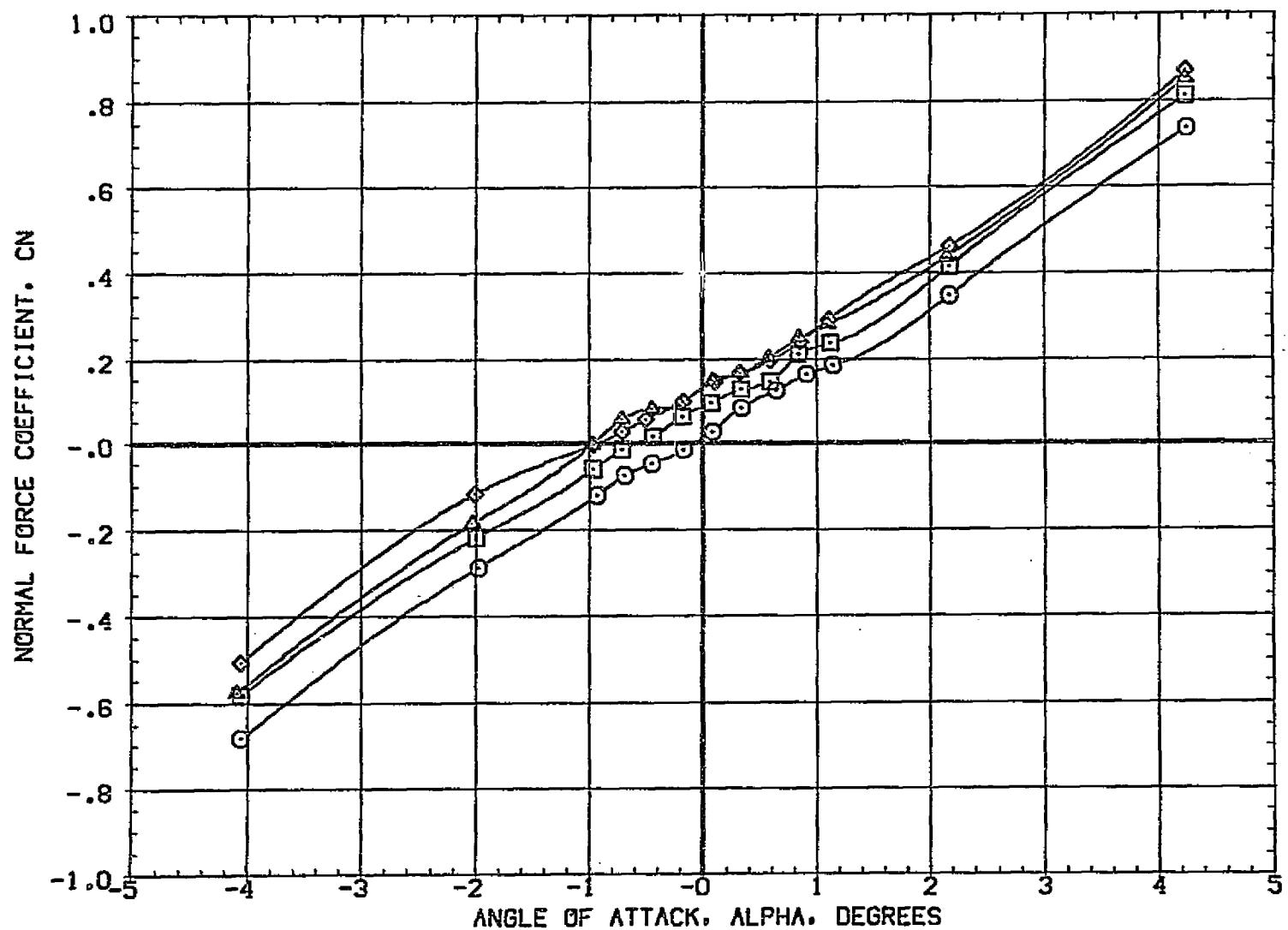
(G)MACH = 1.80

PAGE 100

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) O DCAT ARC 603/604 B2 F4 C  
 (BX1013) □ DCAT ARC 603/604 B2 F4 C  
 (BX1014) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) Δ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	100.000	86.000	SREF .1100 SQ.FT.
.000	40.000	100.000	85.000	LREF .3750 FT.
.000	60.000	100.000	86.000	BREF .3750 FT.
.000	100.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT

> DCT



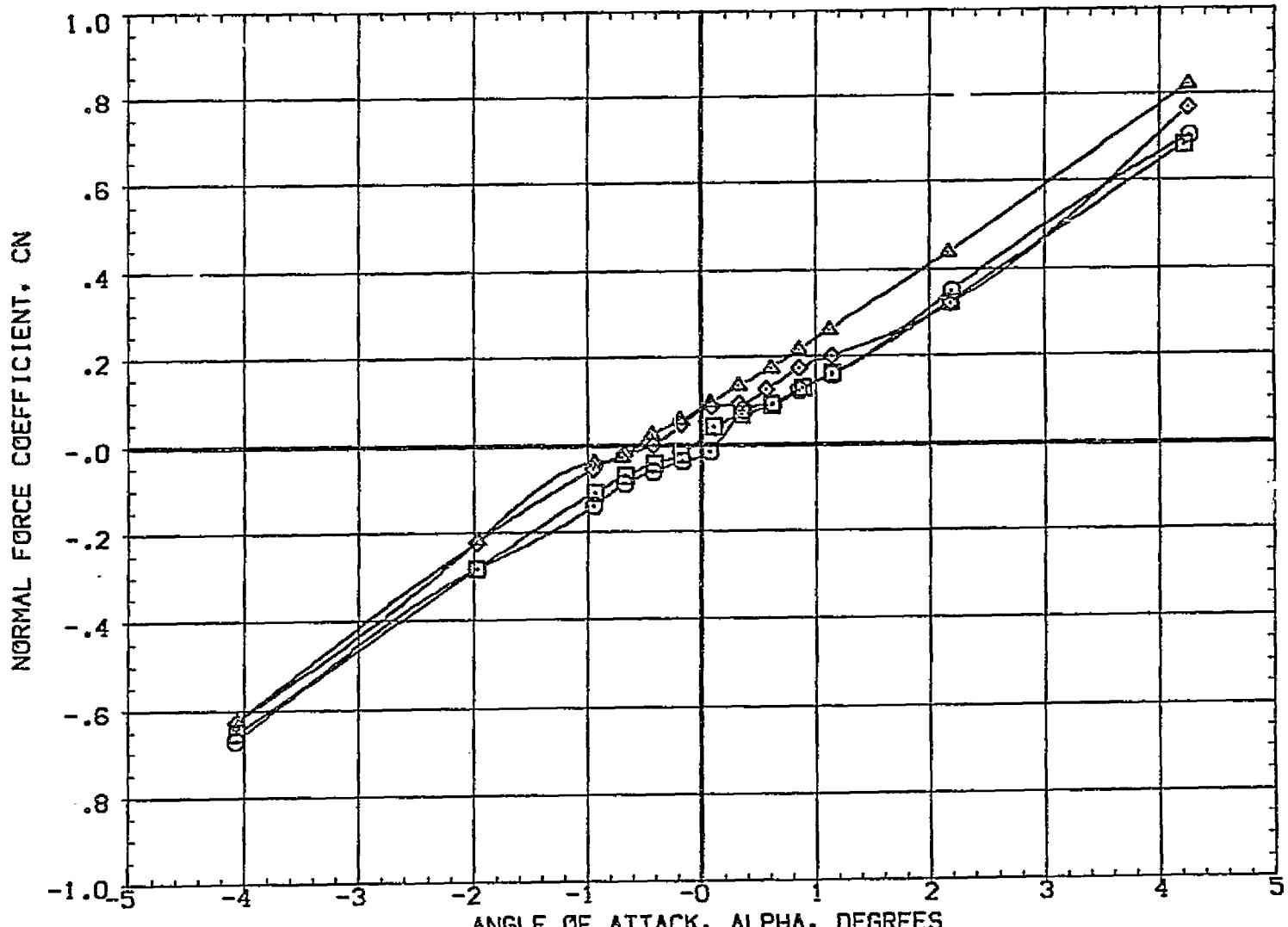
PITCH MODULATION EFFECT

(A)MACH = 0.64

PAGE 101

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) O DCAT ARC 603/604 B2 F4 C  
 (BX1013) X DCAT ARC 603/604 B2 F4 C  
 (BX1014) A DCAT ARC 603/604 B2 F4 C  
 (BX1015) D DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PGJ/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	60.000	100.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

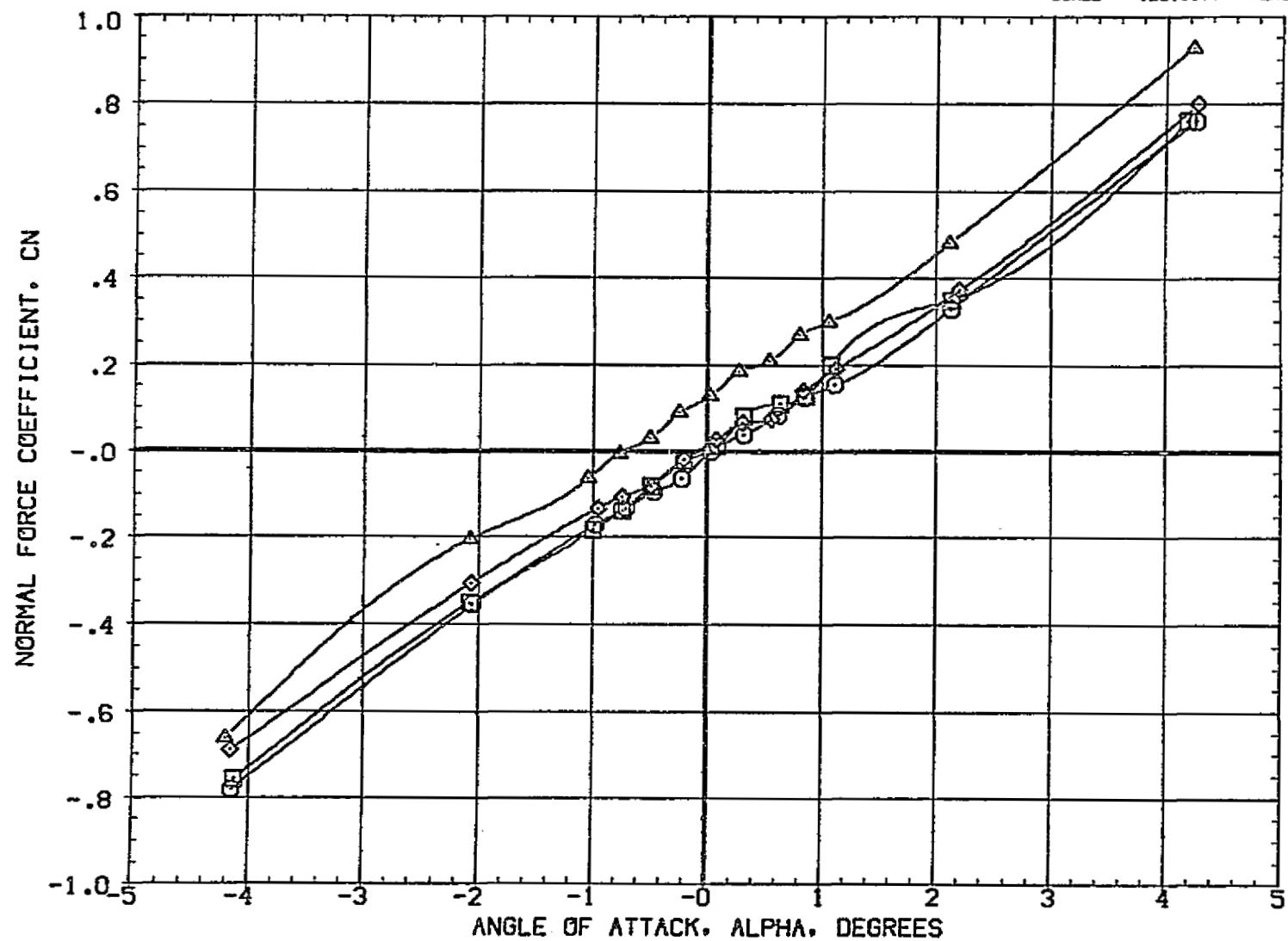


PITCH MODULATION EFFECT  
 (B)MACH = 0.80

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) O DCAT ARC 603/604 B2 F4 C  
 (BX1013) □ DCAT ARC 603/604 B2 F4 C  
 (BX1014) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) ▲ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	60.000	100.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT

>SQT



### PITCH MODULATION EFFECT

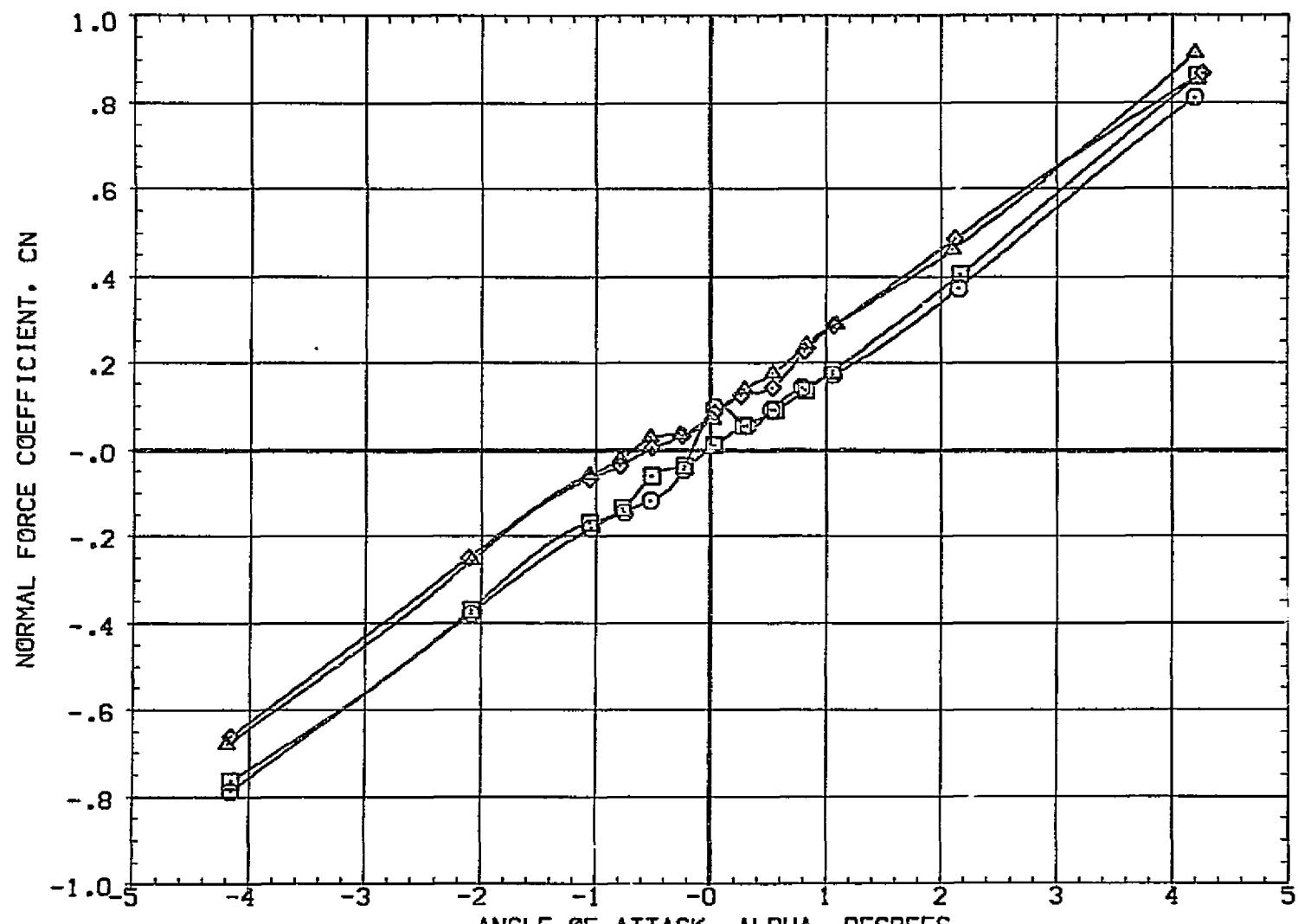
(C)MACH = 0.95

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012)  $\square$  DCAT ARC 603/604 B2 F4 C  
 (BX1013)  $\square$  DCAT ARC 603/604 B2 F4 C  
 (BX1014)  $\diamond$  DCAT ARC 603/604 B2 F4 C  
 (BX1015)  $\triangle$  DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF	REFERENCE	INFORMATION
.000	0.000	100.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	60.000	100.000	86.000	BREF	.3750 FT.
.060	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

>23T



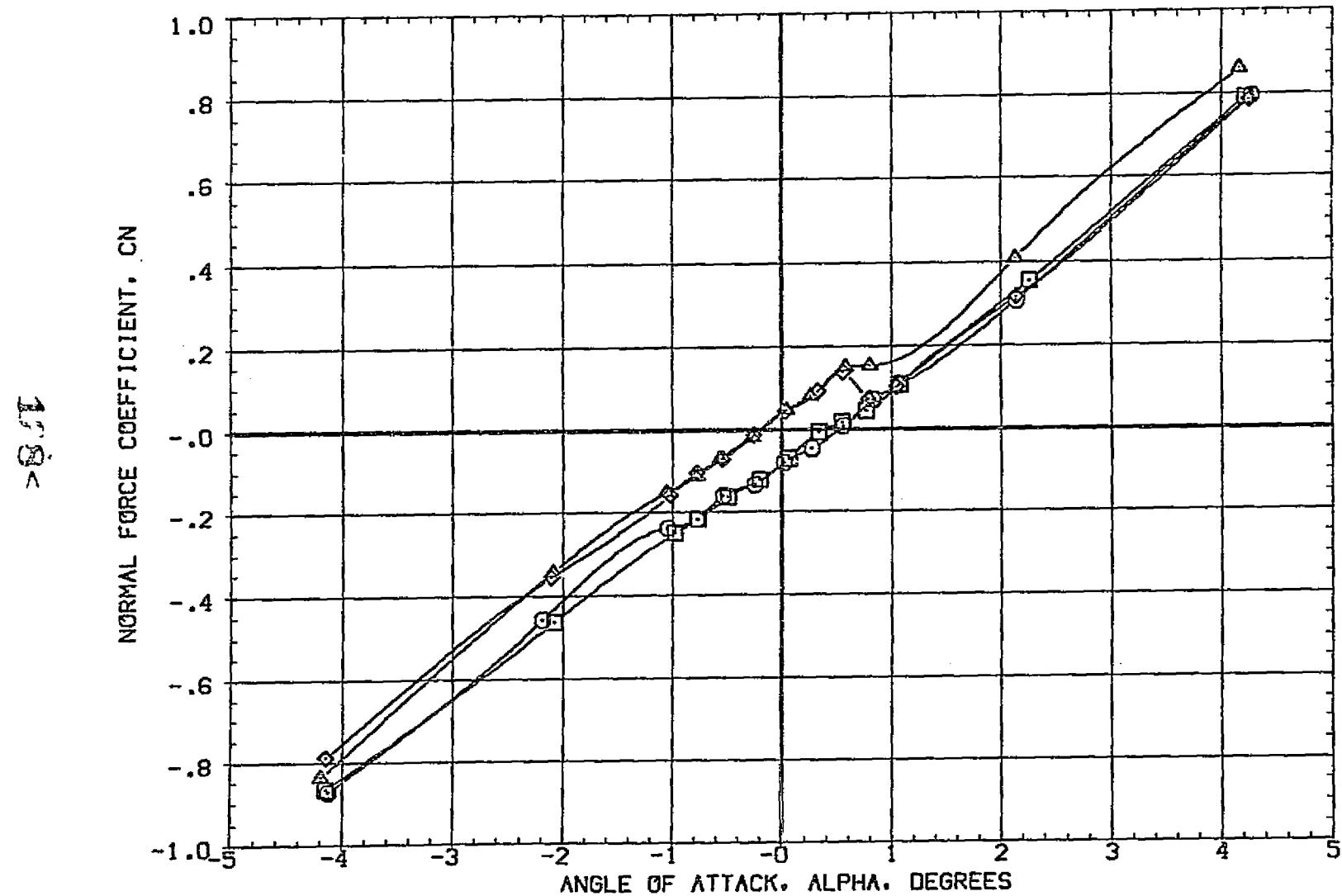
PITCH MODULATION EFFECT

MACH = 1.00

PAGE 104

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012)  DCAT ARC 603/604 B2 F4 C  
 (BX1013)  DCAT ARC 603/604 B2 F4 C  
 (BX1014)  DCAT ARC 603/604 B2 F4 C  
 (BX1015)  DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE INFORMATION
.000	.000	100.000	86.000	SREF .1100 SQ.FT.
.000	40.000	100.000	86.000	LREF .3750 FT.
.000	60.000	100.000	86.000	BREF .3750 FT.
.000	100.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



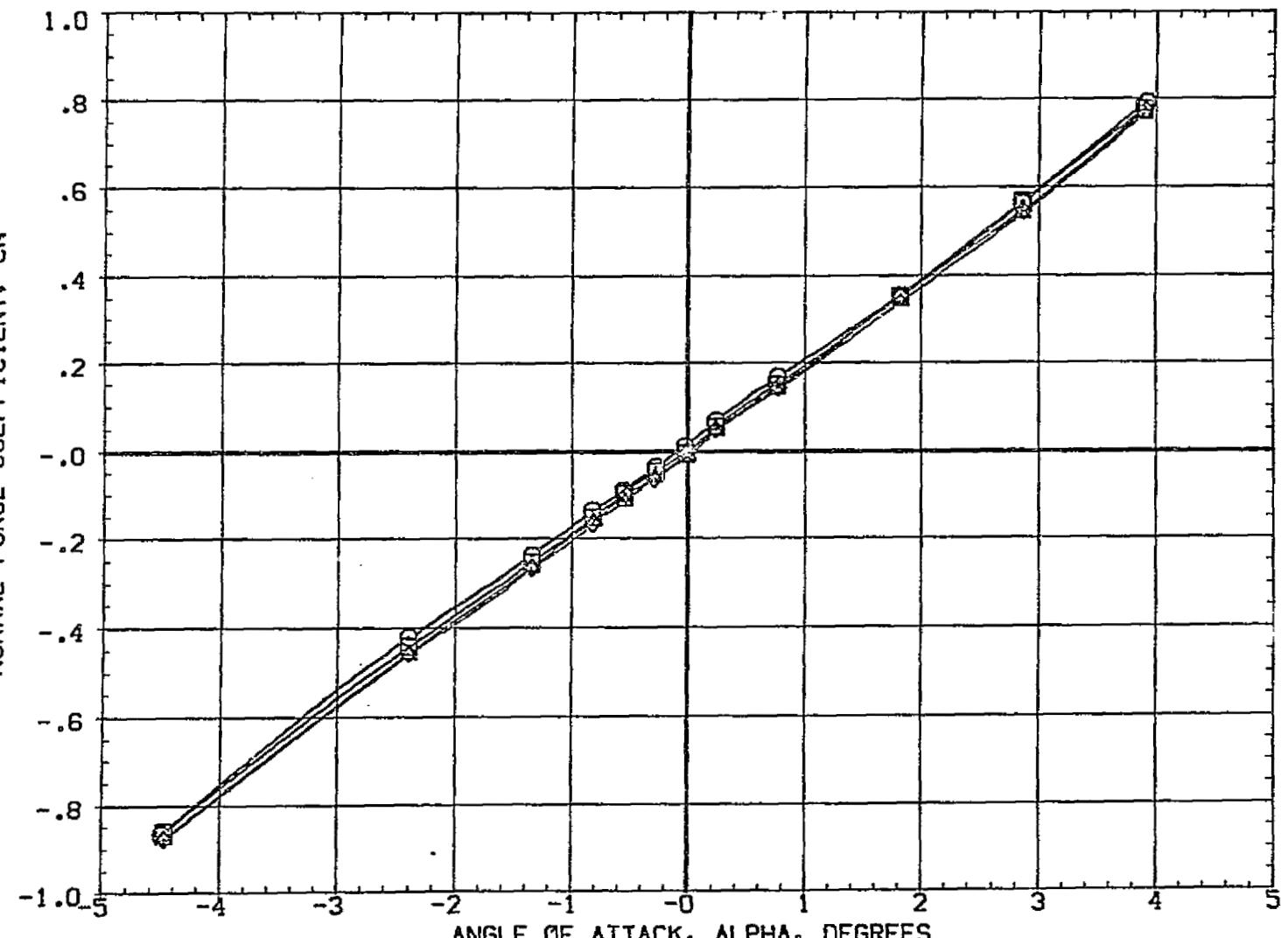
PITCH MODULATION EFFECT

(E)MACH = 1.10

PAGE 105

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) □ DCAT ARC 603/604 B2 F4 C  
 (BX1013) □ DCAT ARC 603/604 -2 F4 C  
 (BX1014) △ DCAT ARC 603/604 B2 F4 C  
 (BX1015) △ DCAT ARC 603/604 B2 F4 C

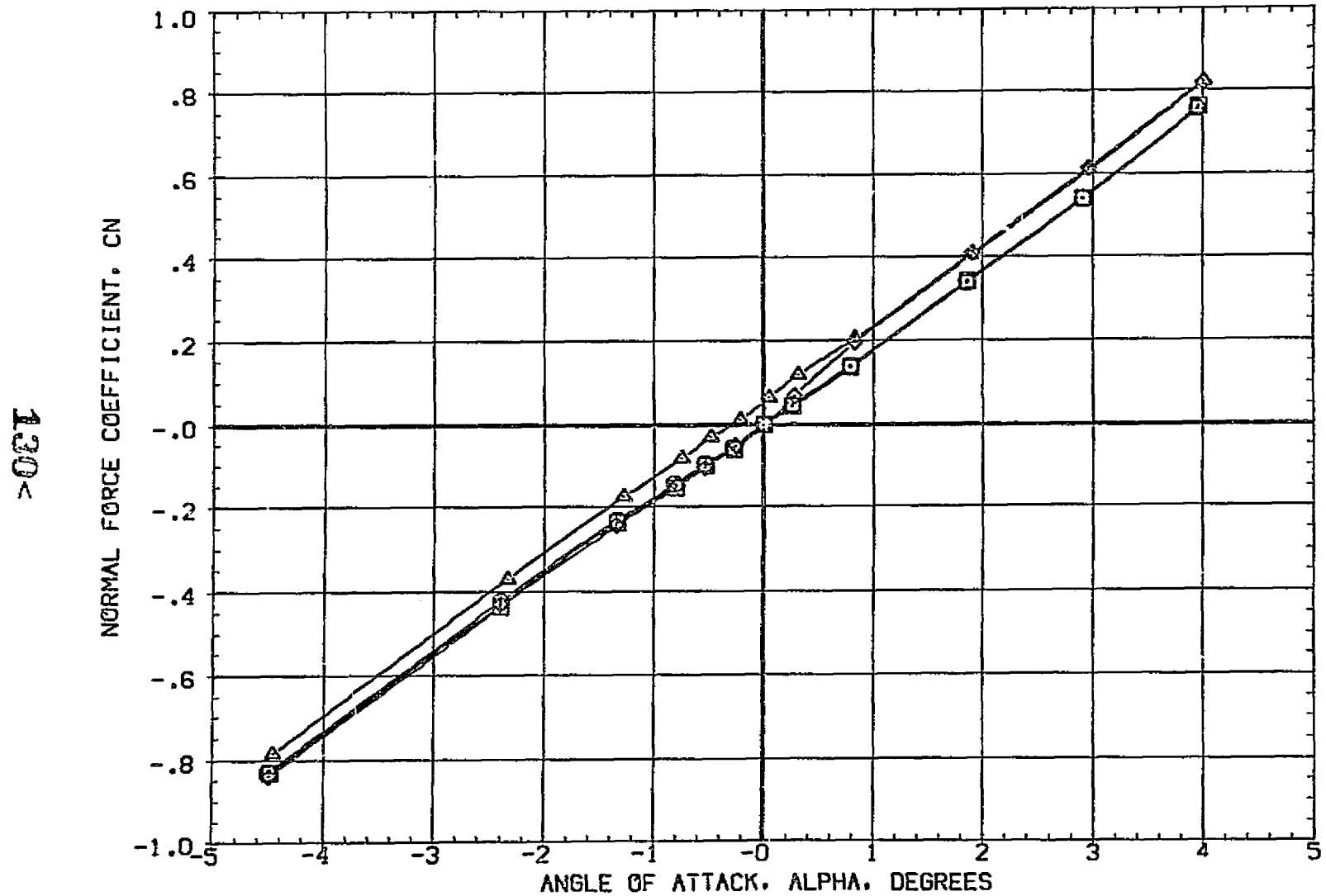
BETA	P-MOD	Y-MOD	P0/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	60.000	100.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



>62° T  
 PITCH MODULATION EFFECT  
 (F)MACH = 1.56

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) □ OCAT ARC 603/604 B2 F4 C  
 (BX1013) □ OCAT ARC 603/604 B2 F4 C  
 (BX1014) △ OCAT ARC 603/604 B2 F4 C  
 (BX1015) △ OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SD.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	60.000	100.000	26.000	BREF	.3750 FT.
.000	100.000	100.000	66.000	XHREF	.0000 FT.
				YHREF	.0000 FT.
				ZHREF	.0000 FT.
				SCALE	125.0000 PERCENT



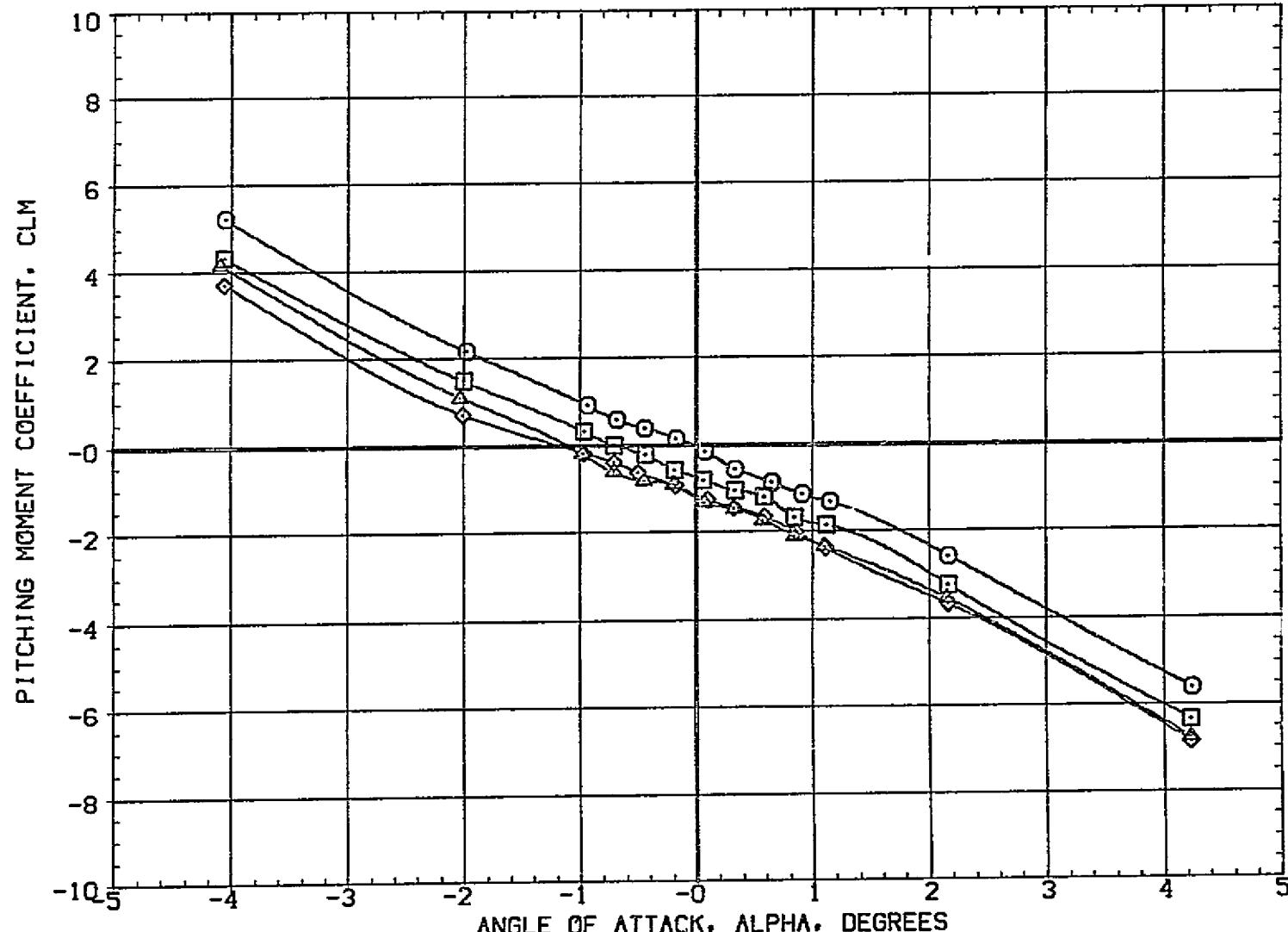
PITCH MODULATION EFFECT

(G)MACH = 1.80

PAGE 107

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) O DCAT ARC 603/604 B2 F4 C  
 (BX1013) □ DCAT ARC 603/604 B2 F4 C  
 (BX1014) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) Δ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	200	100.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	50.000	100.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	66.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



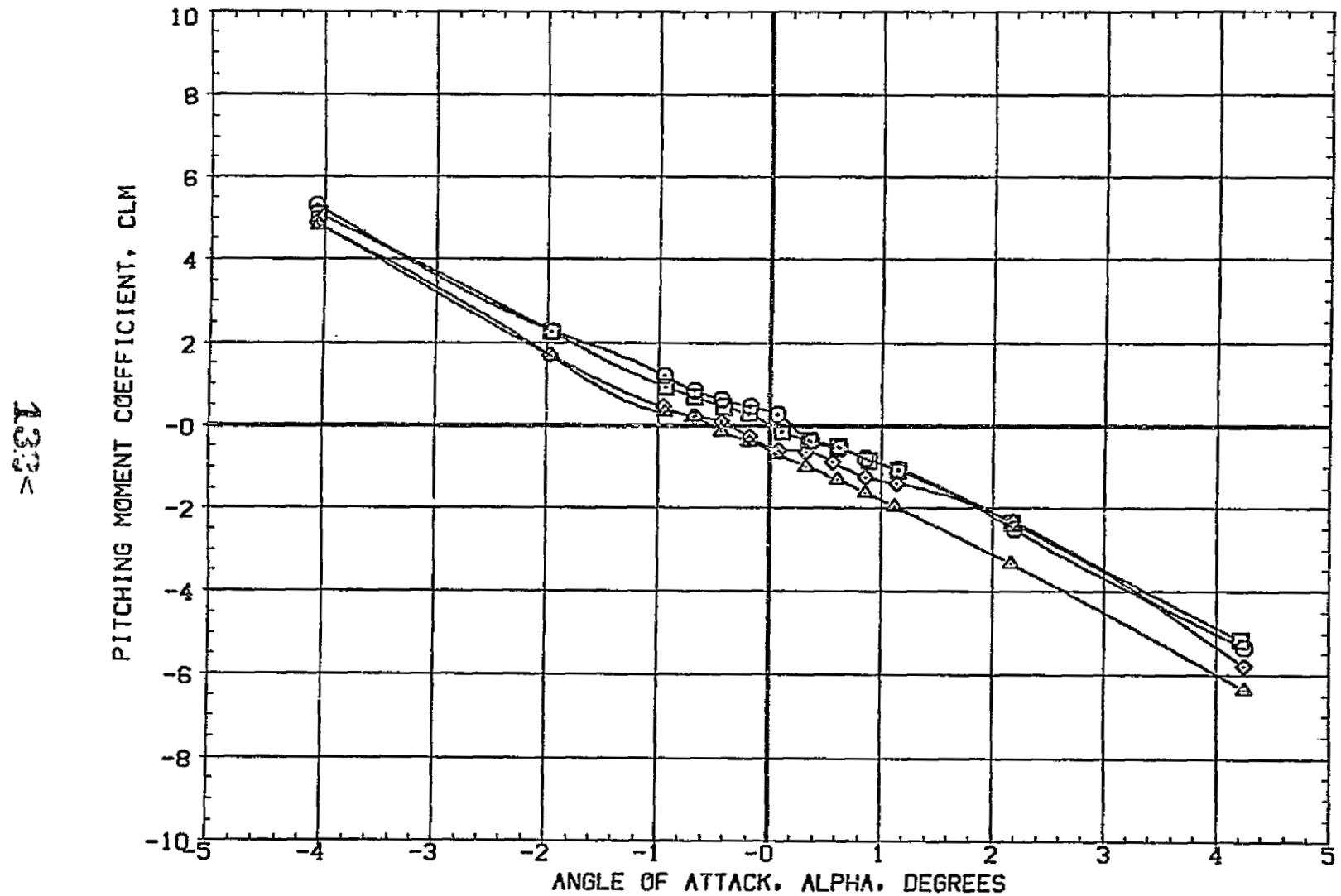
PITCH MODULATION EFFECT

(A)MACH = 0.64

PAGE 108

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) O DCAT ARC 603/604 B2 F4 C  
 (BX1013) □ DCAT ARC 603/604 B2 F4 C  
 (BX1014) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) △ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE	INFORMATION
.000	.000	100.000	65.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	65.000	LREF	.3750 FT.
.000	60.000	100.000	65.000	BREF	.3750 FT.
.000	100.000	100.000	65.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



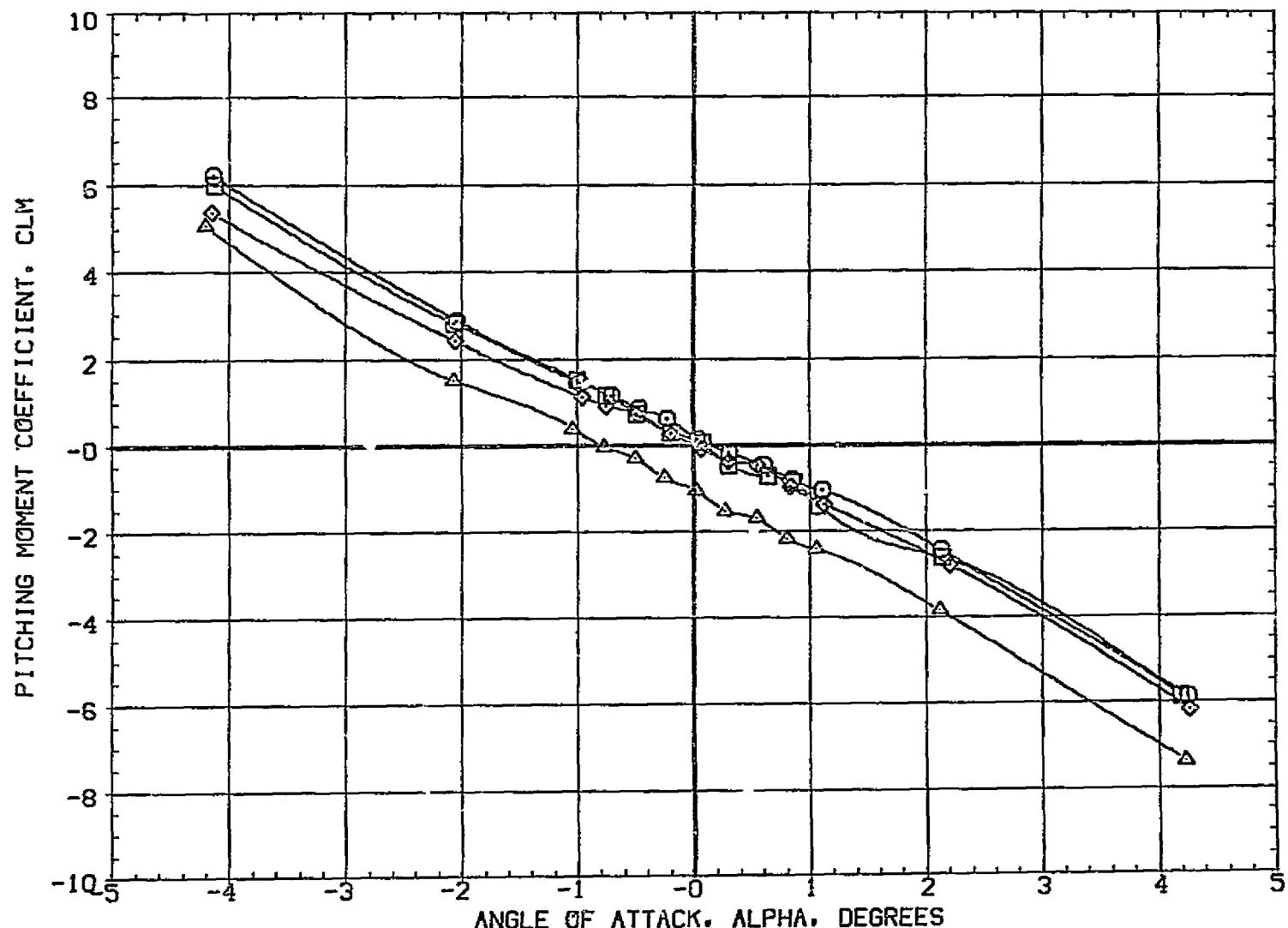
PITCH MODULATION EFFECT

(B)MACH = 0.80

PAGE 109

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) O DCAT ARC 603/604 B2 F4 C  
 (BX1013) X DCAT ARC 603/604 B2 F4 C  
 (BX1014) D DCAT ARC 603/604 B2 F4 C  
 (BX1015) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0V/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SO.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	60.000	100.000	86.000	MREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



→ SGT

PITCH MODULATION EFFECT

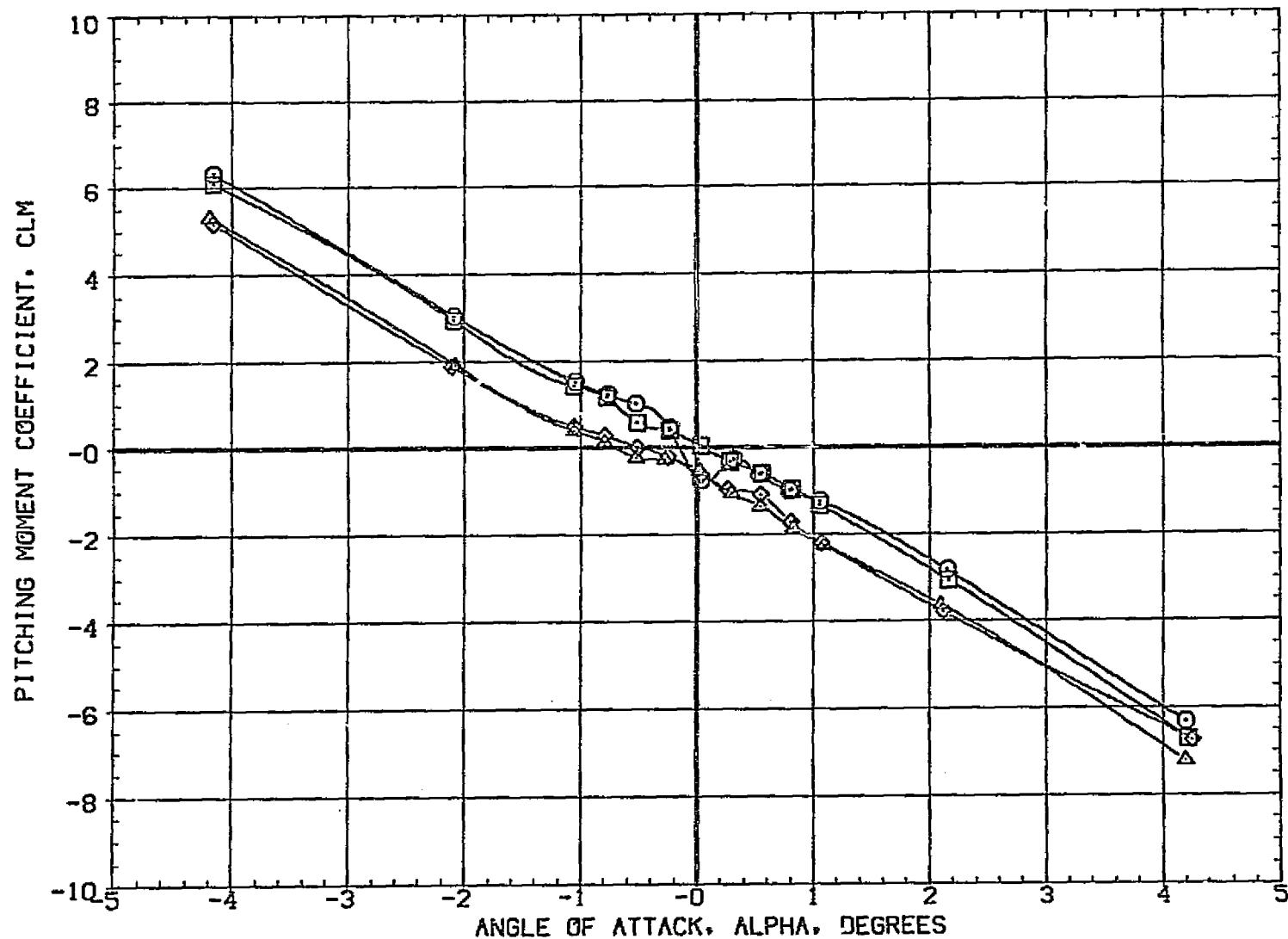
FCFMACH = 0.95

PAGE 110

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) O DCAT ARC 603/604 B2 F4 C  
 (BX1013) □ DCAT ARC 603/604 B2 F4 C  
 (BX1014) △ DCAT ARC 603/604 B2 F4 C  
 (BX1015) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SO.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	60.000	100.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT

> DCT



PITCH MODULATION EFFECT

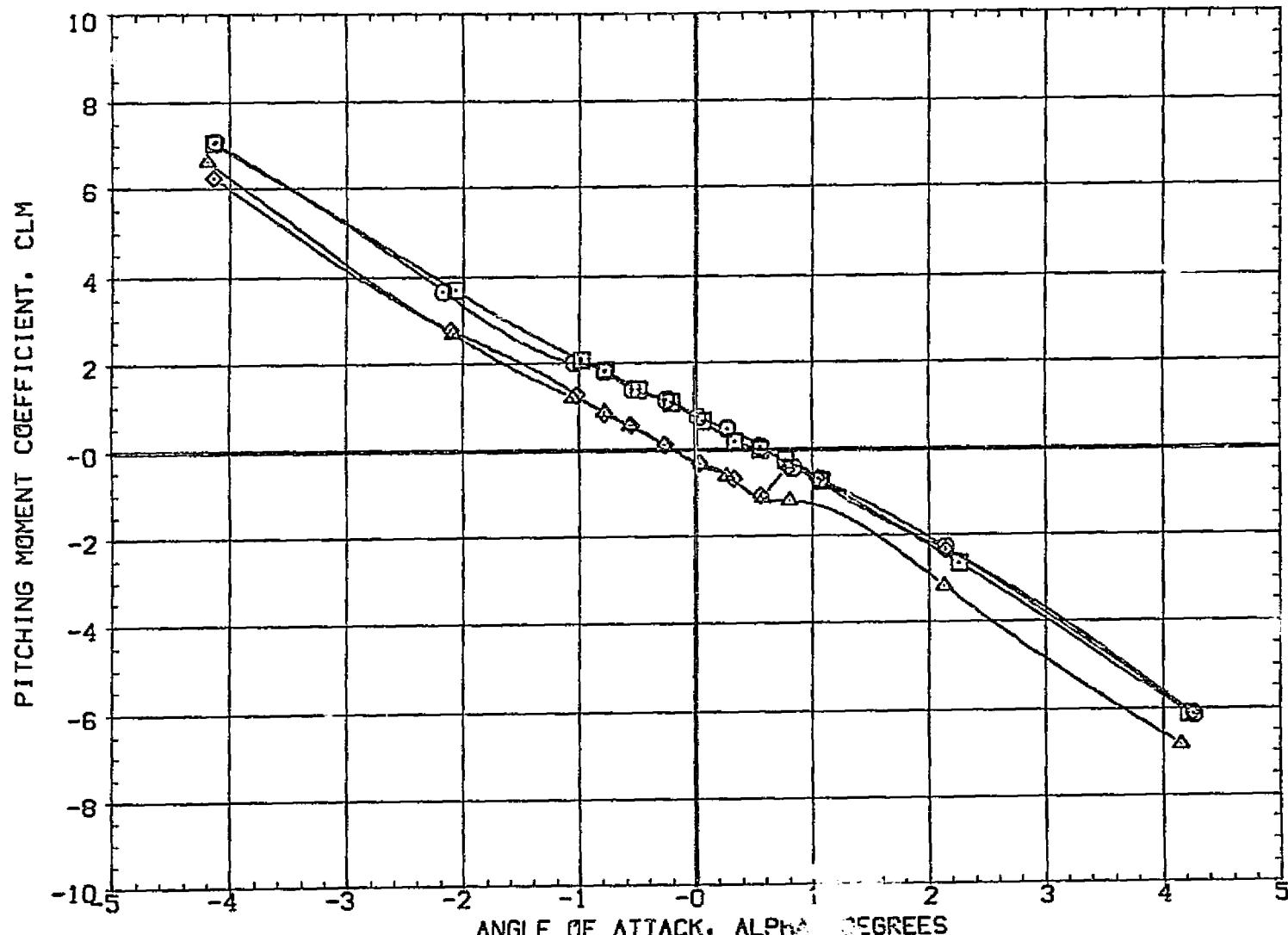
(O) MACH = 1.00

PAGE 111

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) □ DCAT ARC 603/604 B2 F4 C  
 (BX1013) □ DCAT ARC 603/604 B2 F4 C  
 (BX1014) □ DCAT ARC 603/604 B2 F4 C  
 (BX1015) △ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	60.000	100.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

>SET



PITCH MODULATION EFFECT

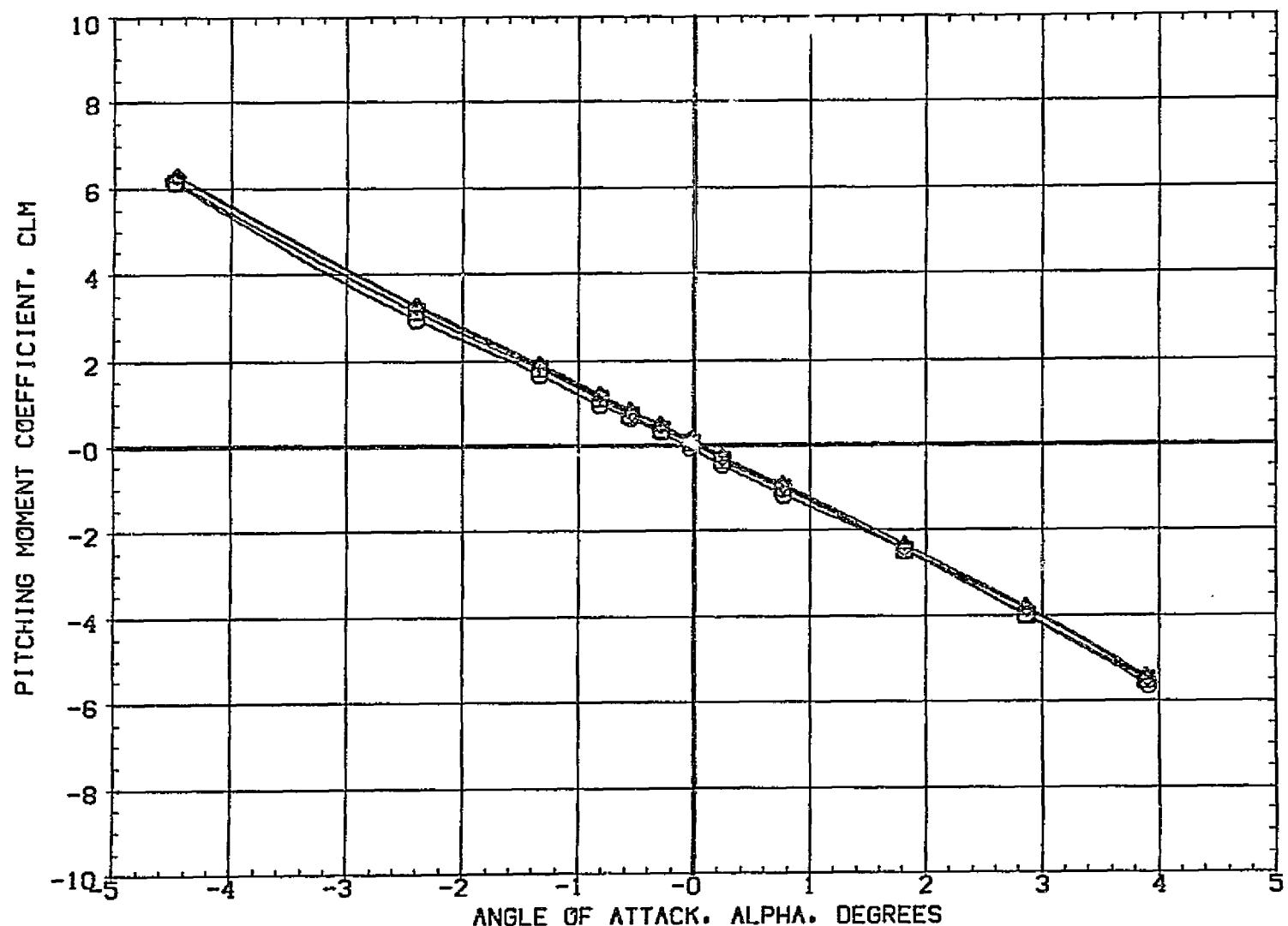
(E)MACH = 1.10

PAGE 112

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) O DCAT ARC 603/604 B2 F4 C  
 (BX1013) □ DCAT ARC 603/604 B2 F4 C  
 (BX1014) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 50.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	60.000	100.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

>93CT

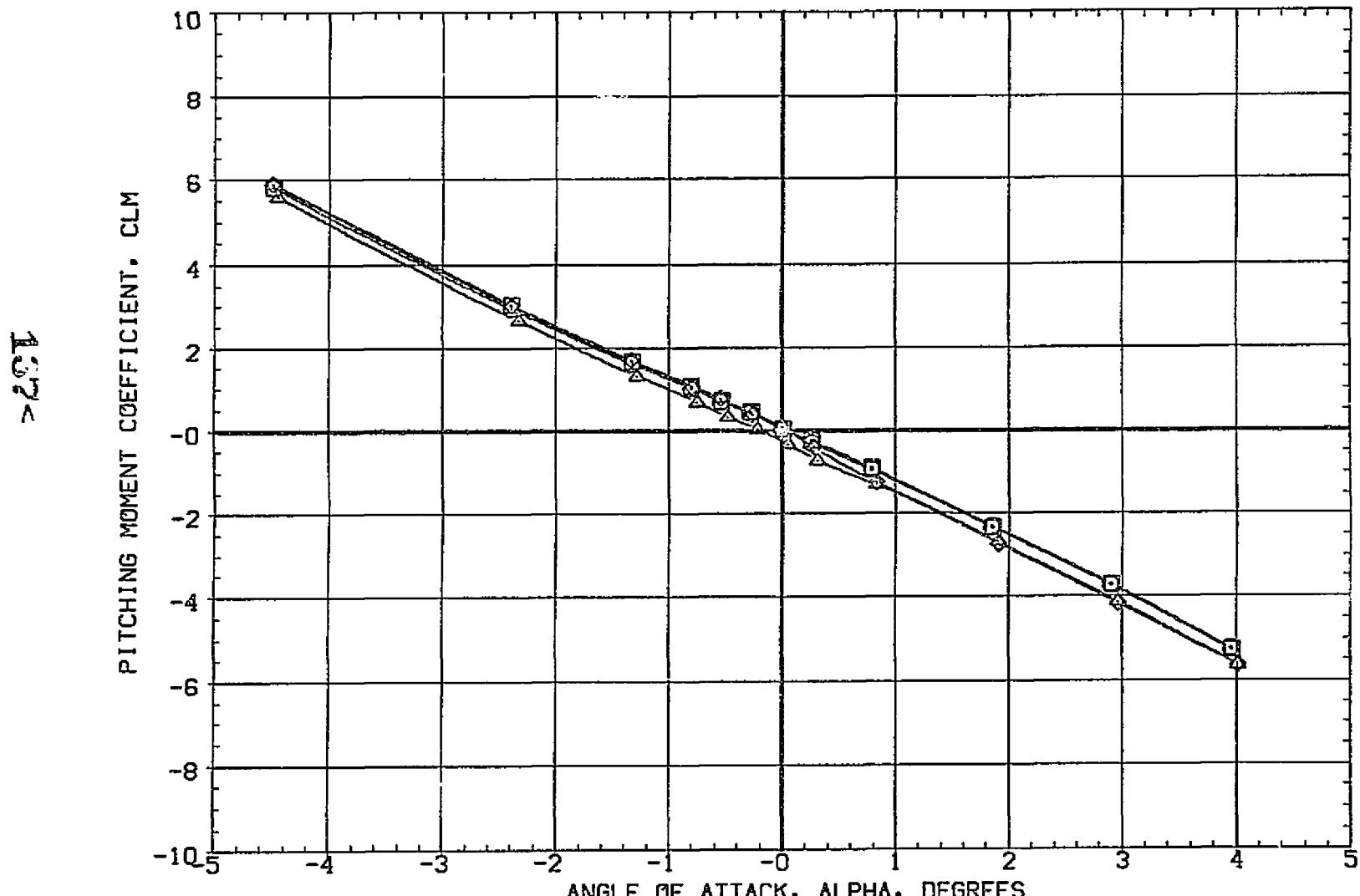


PITCH MODULATION EFFECT

(F)MACH = 1.56

PAGE 113

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	PQJ/PF	REFERENCE	INFORMATION
(BX1012)	OCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000	SREF	.1100 50.FT.
(BX1013)	OCAT ARC 603/604 B2 F4 C	.000	40.000	100.000	86.000	LREF	.3750 FT.
(BX1014)	OCAT ARC 603/604 B2 F4 C	.000	60.000	100.000	86.000	BREF	.3750 FT.
(BX1015)	OCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	86.000	XMRP	.0000 FT.
						YMRP	.0000 FT.
						ZMRP	.0000 FT.
						SCALE	125.0000 PERCNT



PITCH MODULATION EFFECT

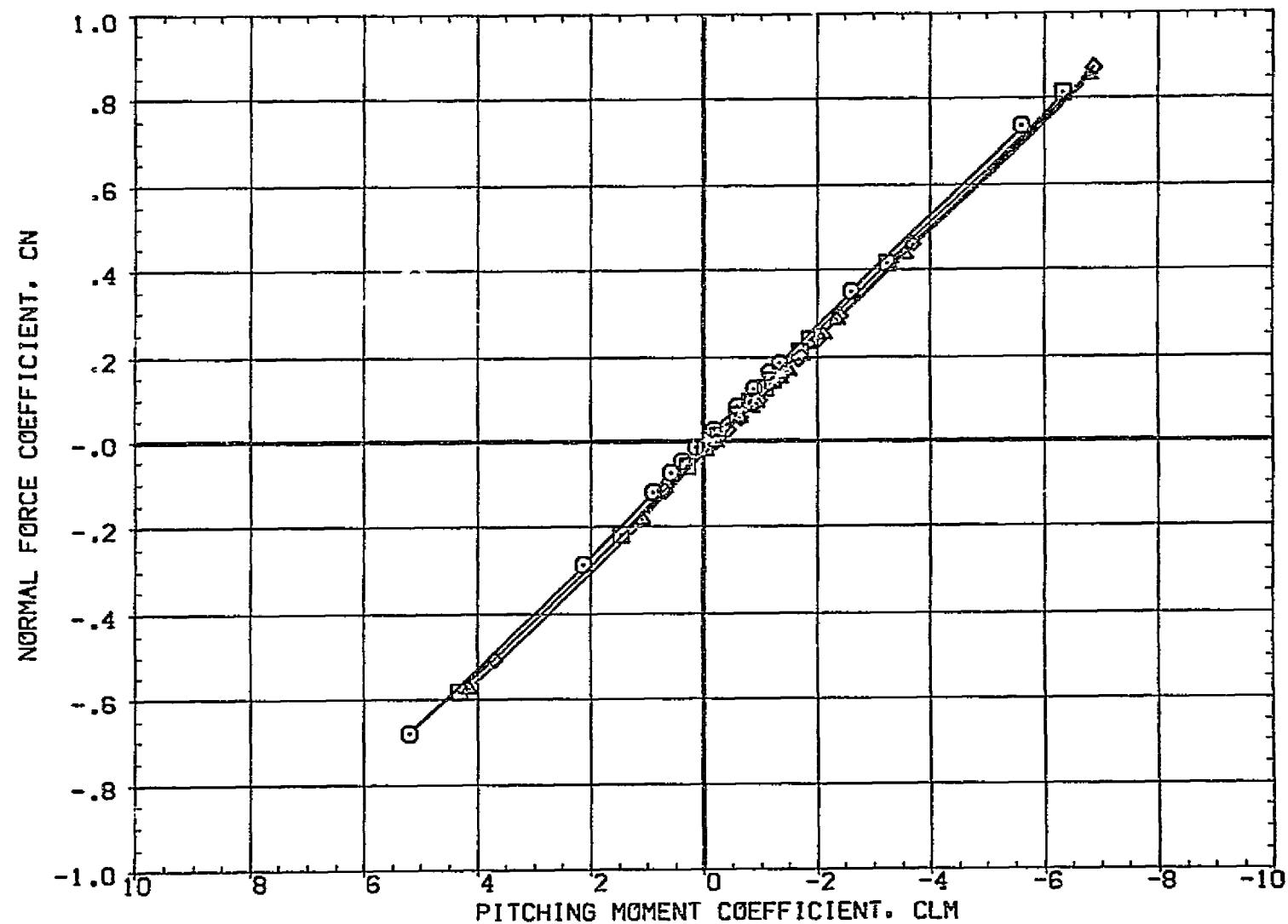
(G)MACH = 1.80

PAGE 114

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) DCAT ARC 603/604 B2 F4 C  
 (BX1013) DCAT ARC 603/604 B2 F4 C  
 (BX1014) DCAT ARC 603/604 B2 F4 C  
 (BX1015) DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PCW/PF	REFERENCE INFORMATION
.000	.000	100.000	86.000	SREF .1100 SQ.FT.
.000	40.000	100.000	86.000	LREF .3750 FT.
.000	60.000	100.000	86.000	BREF .3750 FT.
.000	100.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
SCALE	125.0000	FERCNT		

>83°



PITCH MODULATION EFFECT

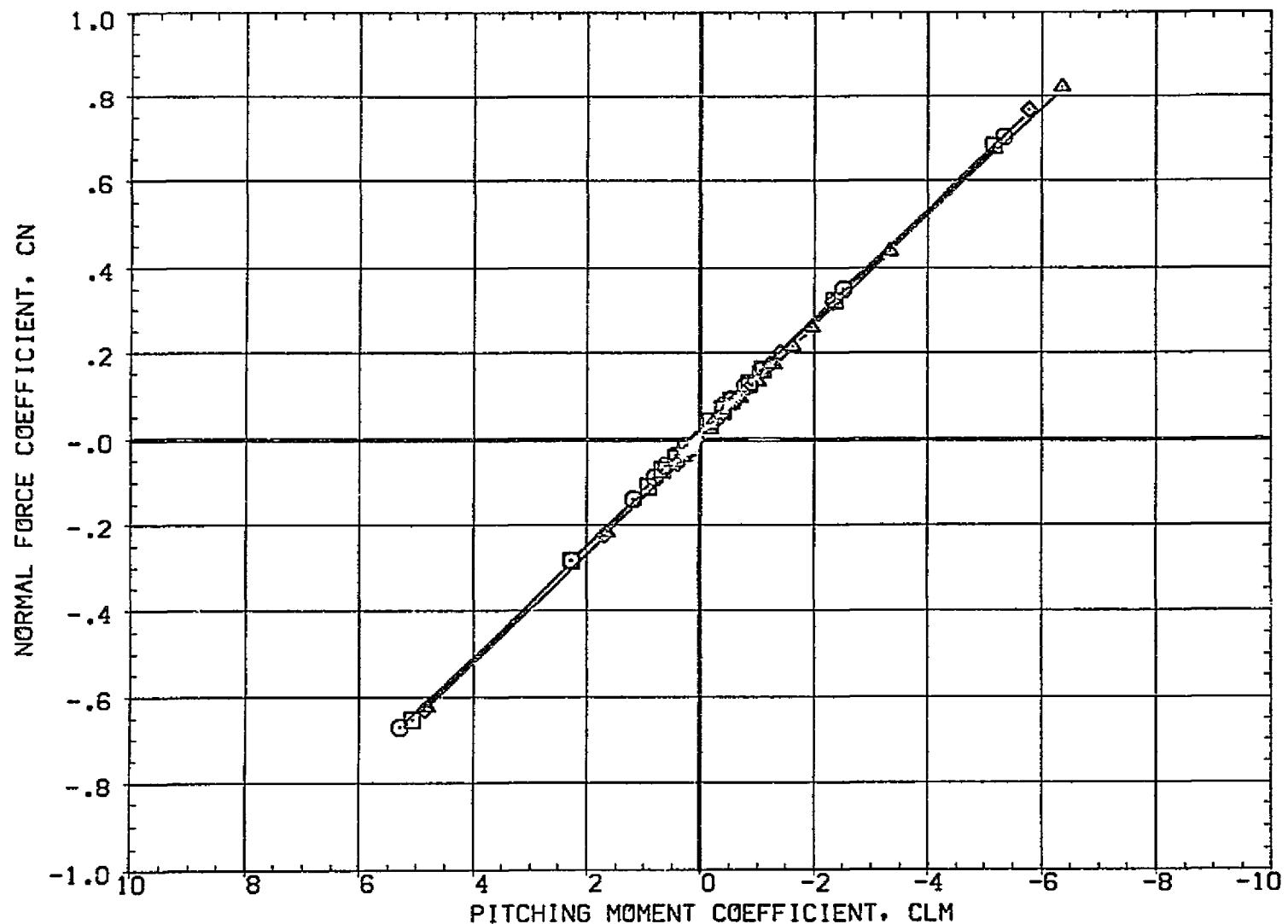
(A)MACH = 0.64

PAGE 115

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012)  $\square$  DCAT ARC 603/604 B2 F4 C  
 (BX1013)  $\square$  DCAT ARC 603/604 R2 F4 C  
 (BX1014)  $\diamond$  DCAT ARC 603/604 B2 F4 C  
 (BX1015)  $\Delta$  DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	100.000	86.000	SREF .1100 SQ.FT.
.000	40.000	100.000	86.000	LREF .3750 FT.
.000	60.000	100.000	86.000	BREF .3750 FT.
.000	100.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT

>60°



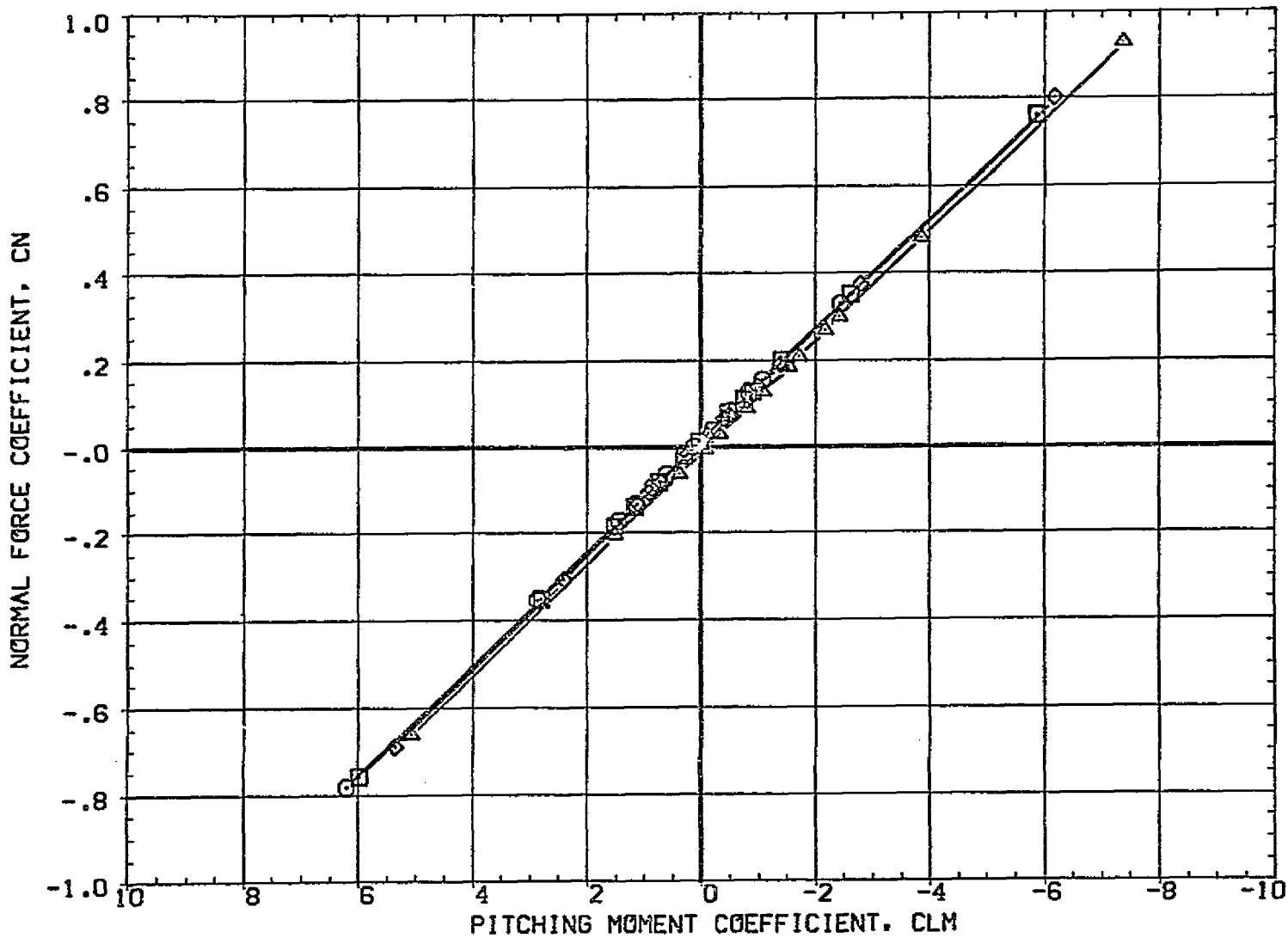
PITCH MODULATION EFFECT

(B)MACH = 0.80

PAGE 116

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) □ DCAT ARC 603/604 B2 F4 C  
 (BX1013) □ DCAT ARC 603/604 B2 F4 C  
 (BX1014) × DCAT ARC 603/604 B2 F4 C  
 (BX1015) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	60.000	100.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



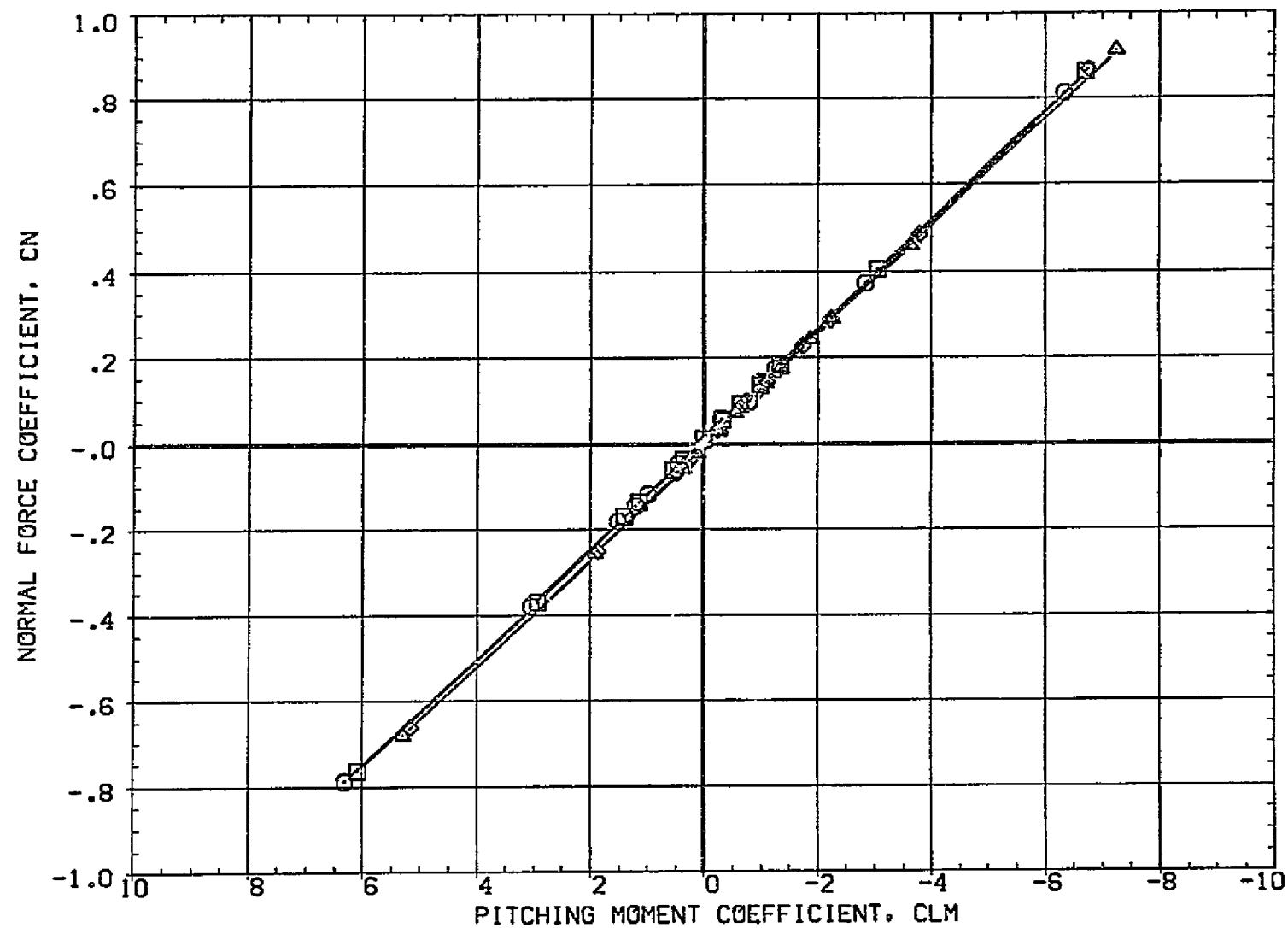
PITCH MODULATION EFFECT

(COMACH = 0.95)

PAGE 117

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) O DCAT ARC 603/604 B2 F4 C  
 (BX1013) □ DCAT ARC 603/604 B2 F4 C  
 (BX1014) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) Δ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PQJ/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	60.000	100.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



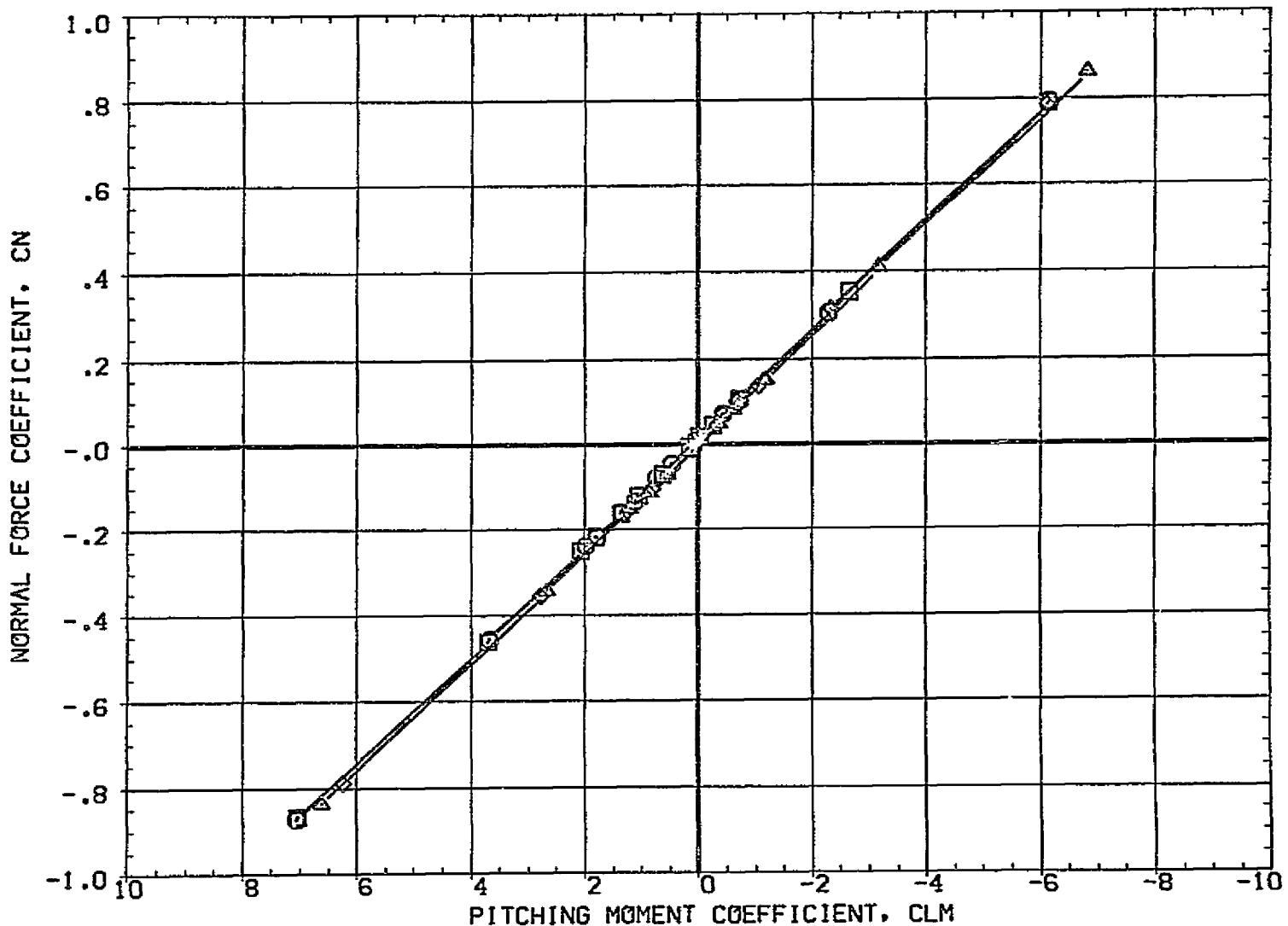
PITCH MODULATION EFFECT

(CD)MACH = 1.00

PAGE 118

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) O DCAT ARC 603/604 B2 F4 C  
 (BX1013) □ DCAT ARC 603/604 B2 F4 C  
 (BX1014) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) △ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PGV/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	60.000	100.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



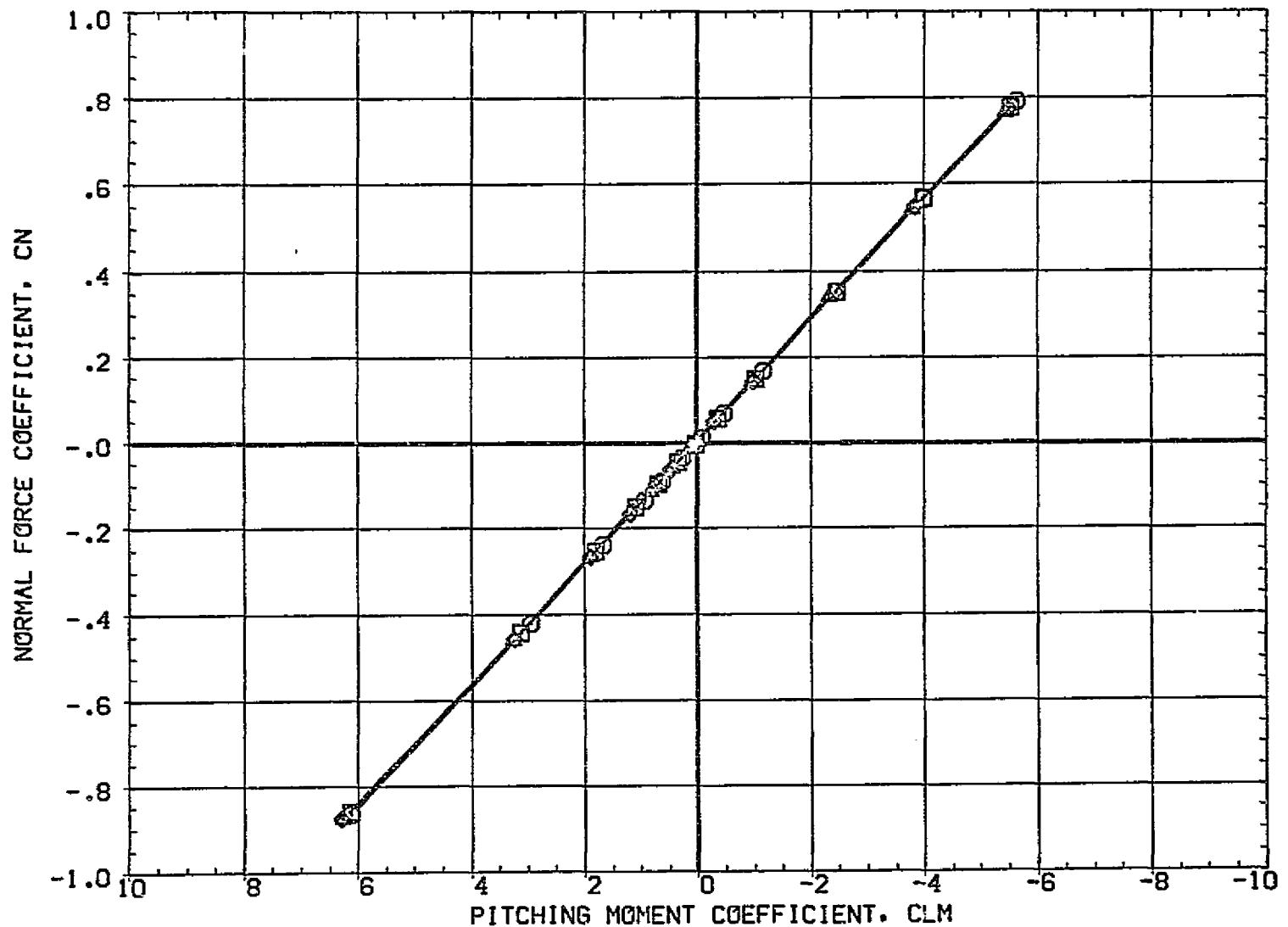
### PITCH MODULATION EFFECT

(E)MACH = 1.10

PAGE 119

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) D CAT ARC 603/604 B2 F4 C  
 (BX1013) D CAT ARC 603/604 B2 F4 C  
 (BX1014) X CAT ARC 603/604 B2 F4 C  
 (BX1015) X CAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
:000	:000	100.000	86.000	SREF	.1100 SO.FT.
:000	10.000	100.000	86.000	LREF	.3750 FT.
:000	60.000	100.000	86.000	BREF	.3750 FT.
:000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



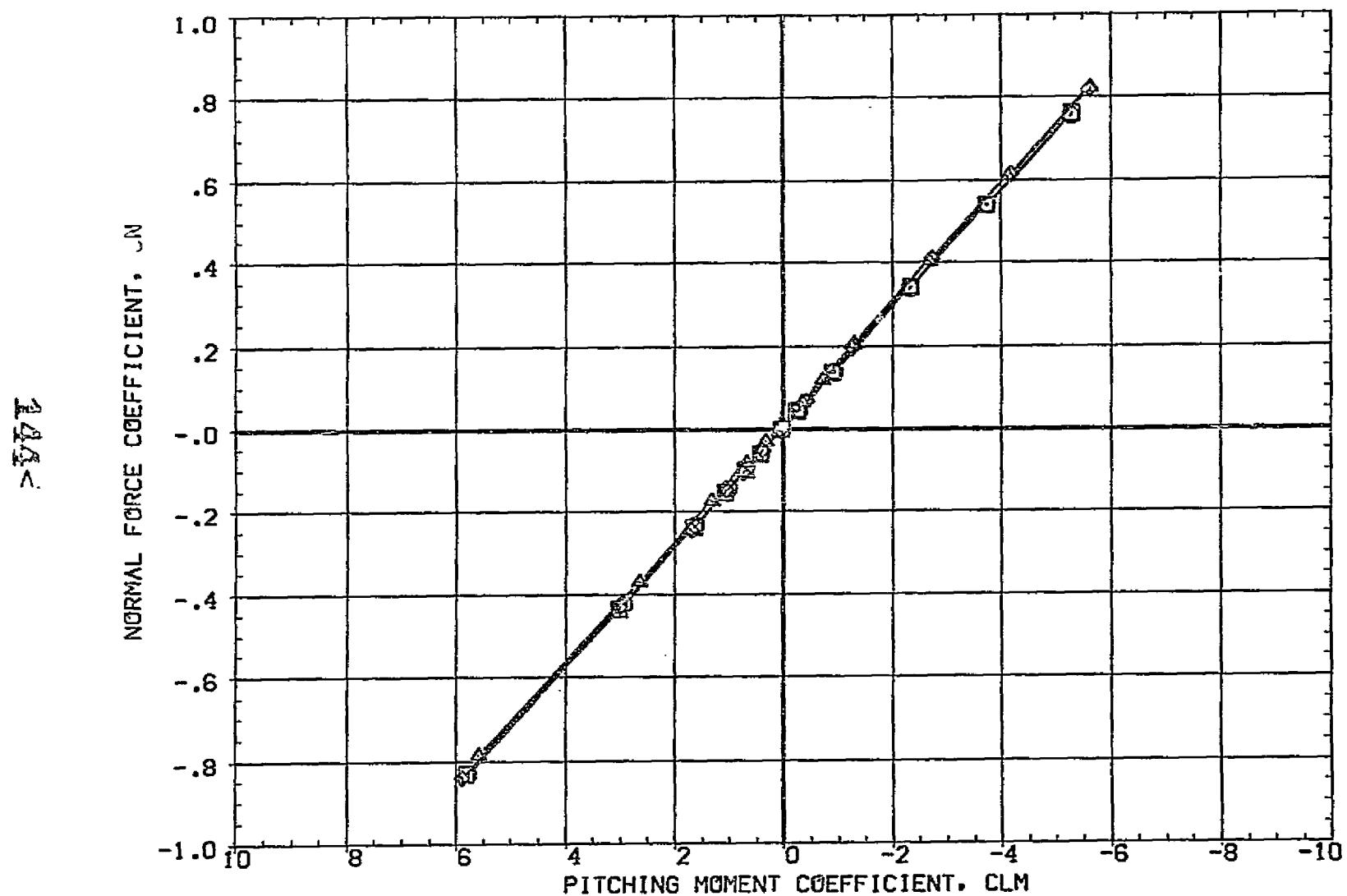
PITCH MODULATION EFFECT

(FMACH = 1.56)

PAGE 120

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) O DCAT ARC 603/604 B2 F4 C  
 (BX1013) □ DCAT ARC 603/604 B2 F4 C  
 (BX1014) △ DCAT ARC 603/604 B2 F4 C  
 (BX1015) ▲ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	100.000	86.000	SREF .1100 SQ.FT.
.000	40.000	100.000	86.000	LREF .3750 FT.
.000	60.000	100.000	86.000	BREF .3750 FT.
.000	100.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



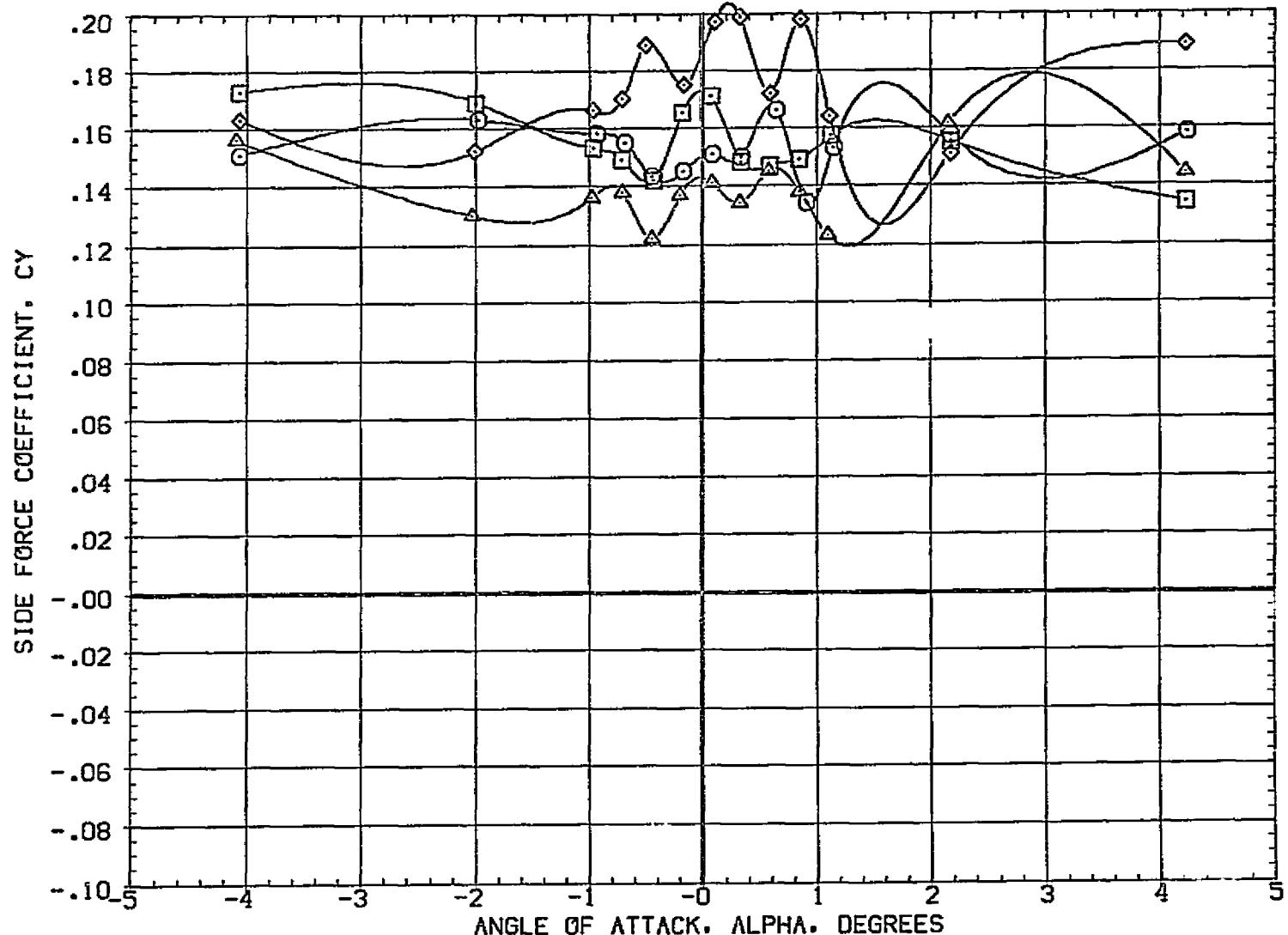
PITCH MODULATION EFFECT

(G)MACH = 1.80

PAGE 121

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) DCAT ARC 603/604 B2 F4 C  
 (BX1013) DCAT ARC 603/604 B2 F4 C  
 (BX1014) DCAT ARC 603/604 B2 F4 C  
 (BX1015) DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE INFORMATION
.000	.000	100.000	86.000	SREF .1100 SQ.FT.
.000	40.000	100.000	86.000	LREF .3750 FT.
.000	60.000	100.000	86.000	BREF .3750 FT.
.000	100.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



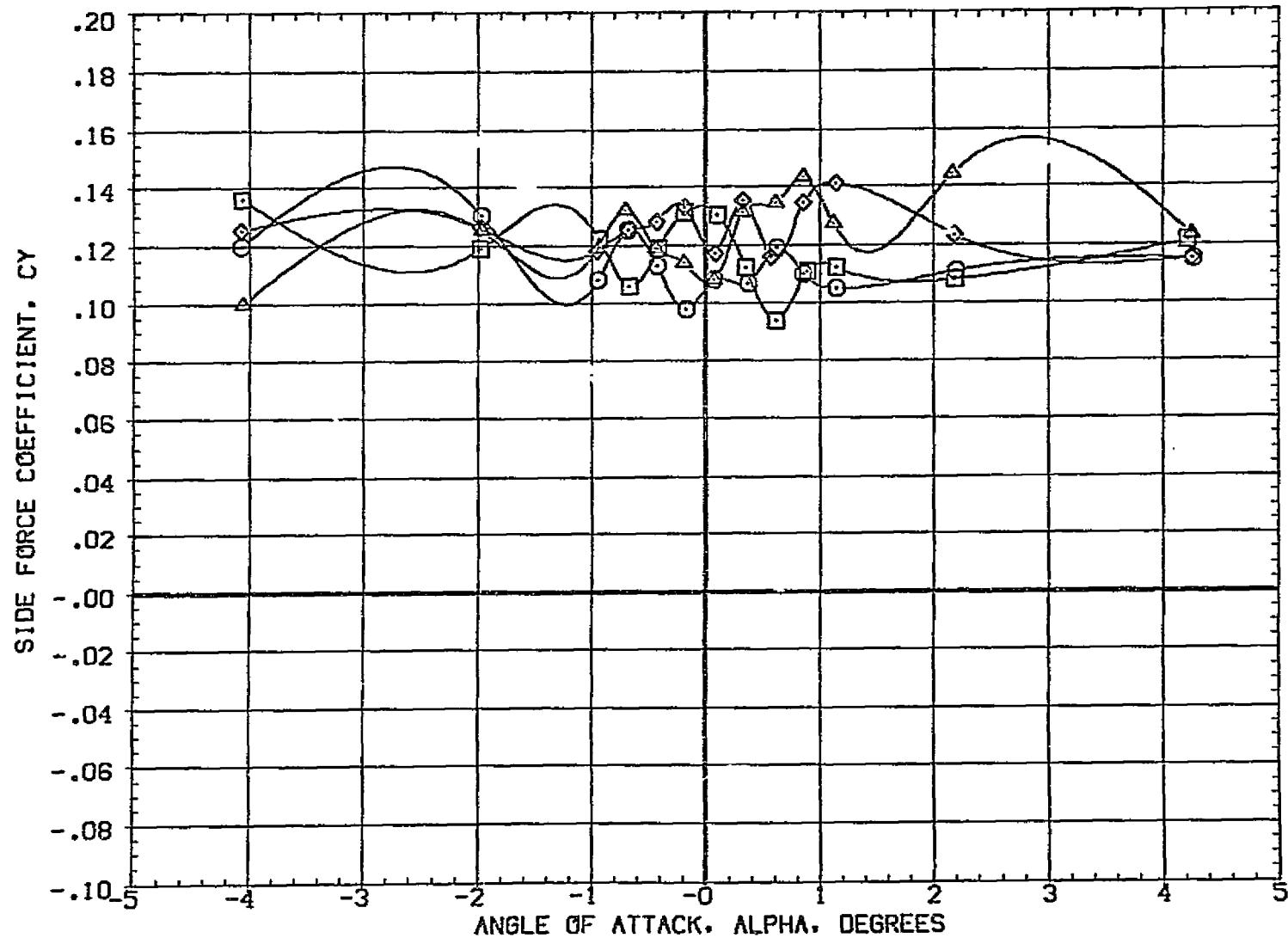
### PITCH MODULATION EFFECT

(A)MACH = 0.64

PAGE 122

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) O DCAT ARC 603/604 B2 F4 C  
 (BX1013) □ DCAT ARC 603/604 B2 F4 C  
 (BX1014) Δ DCAT ARC 603/604 B2 F4 C  
 (BX1015) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POI/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	60.000	100.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XHPP	.0000 FT.
				YHPP	.0000 FT.
				ZHPP	.0000 FT.
				SCALE	125.0000 PERCNT



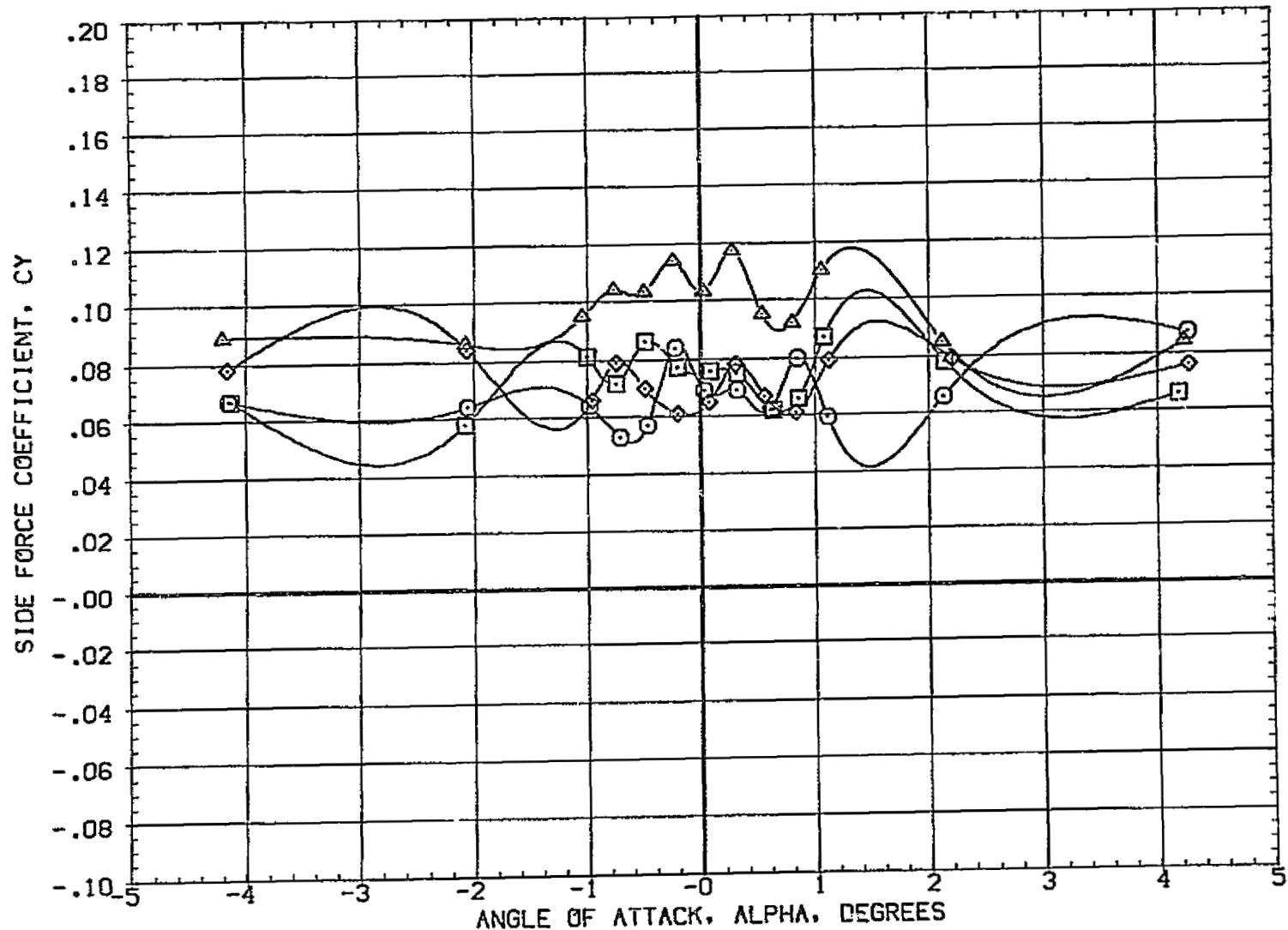
PITCH MODULATION EFFECT

(B)MACH = 0.80

PAGE 123

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) O DCAT ARC 603/604 B1 F4 C  
 (BX1013) □ DCAT ARC 603/604 B2 F4 C  
 (BX1014) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) △ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0/FF	REFERENCE INFORMATION
.000	.000	100.000	86.000	SREF .1100 SQ.FT.
.000	40.000	100.000	86.000	LREF .3750 FT.
.000	60.000	100.000	86.000	MREF .3750 FT.
.000	100.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



PITCH MODULATION EFFECT

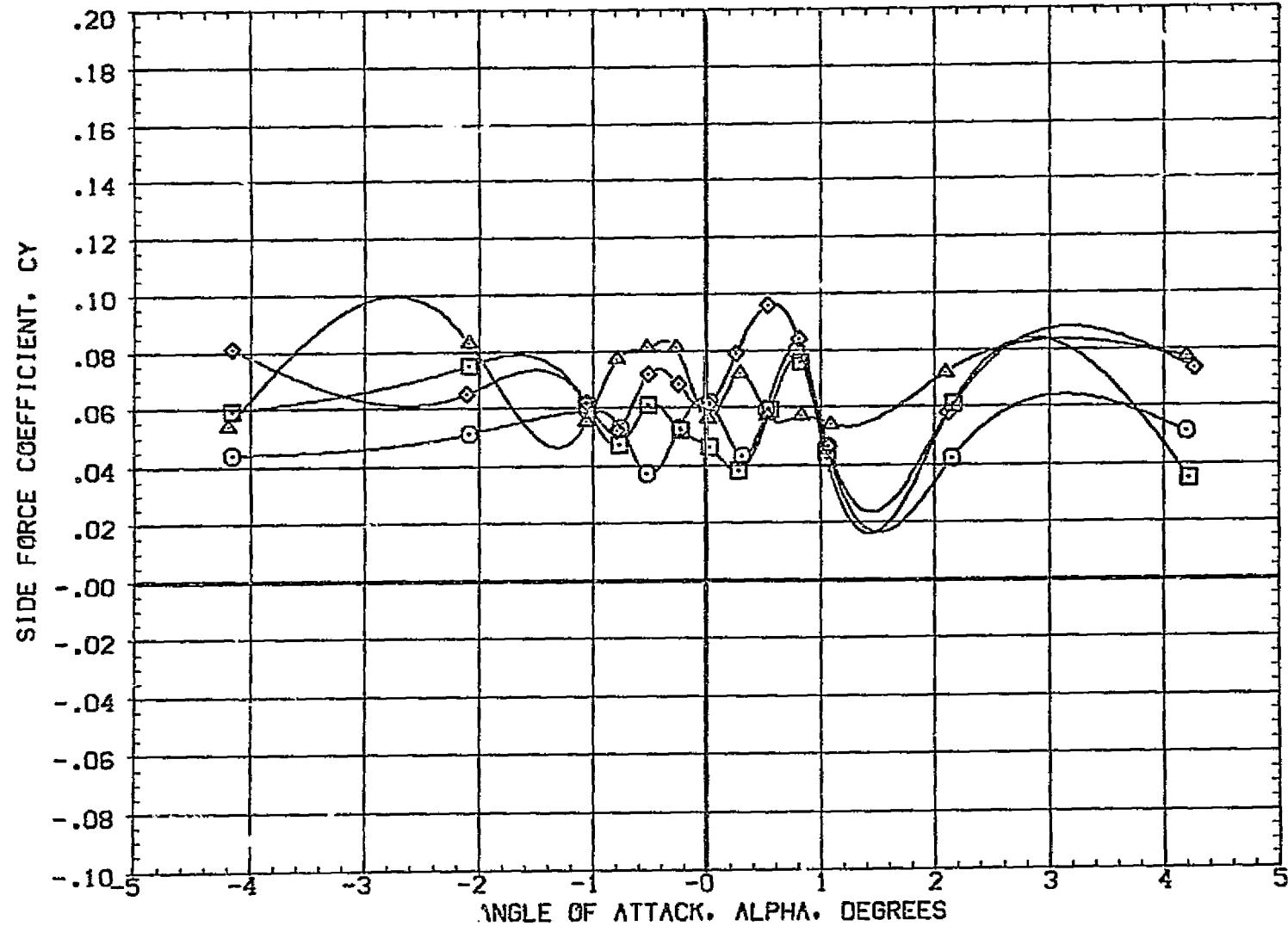
(C)MACH = 0.95

PAGE 124

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) O DCAT ARC 603/604 B2 F4 C  
 (BX1013) O DCAT ARC 603/604 B2 F4 C  
 (BX1014) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SD.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	60.000	100.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT

>87%



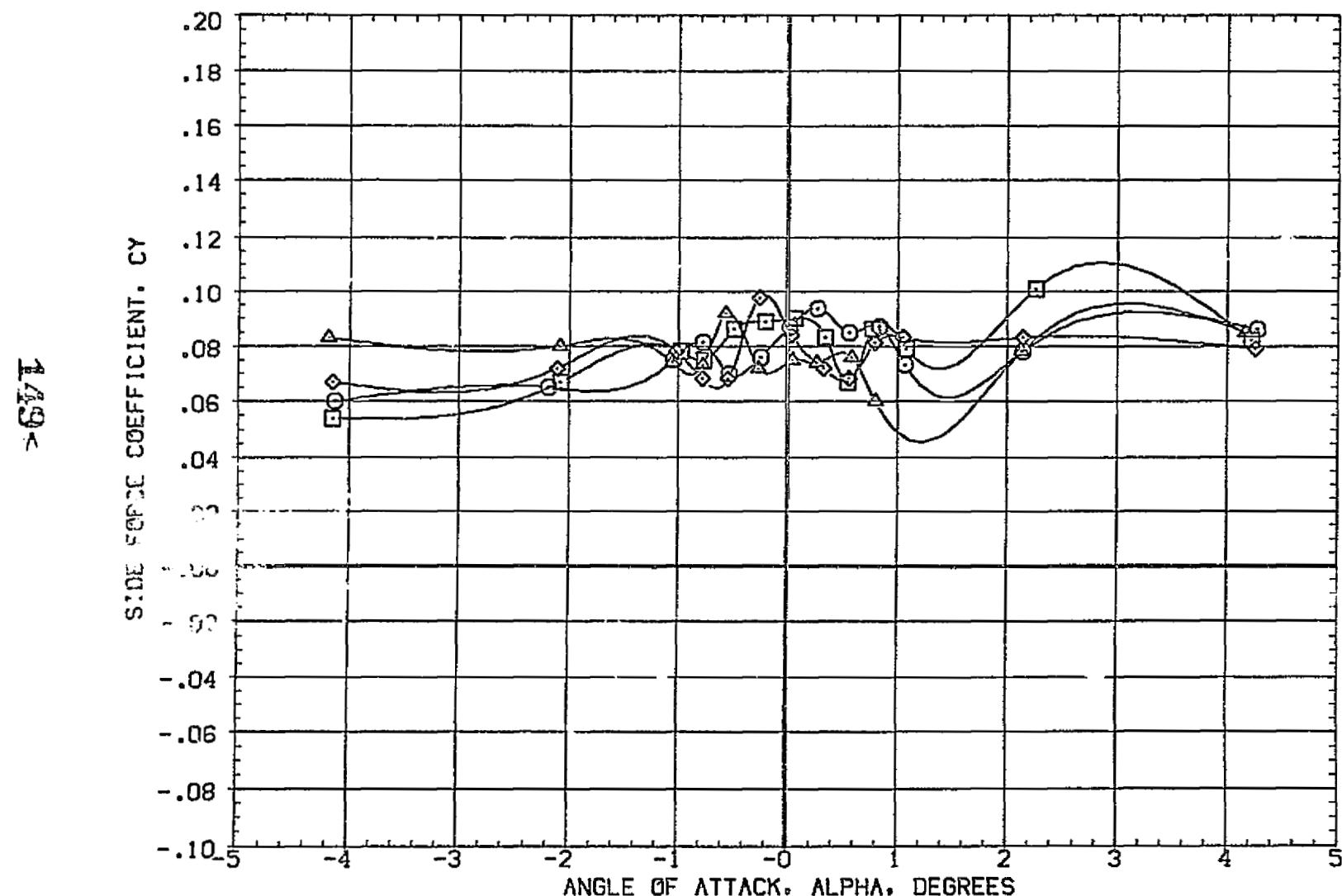
PITCH MODULATION EFFECT

(D)MACH = 1.00

PAGE 125

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) O DCAT ARC 603/604 B2 F4 C  
 (BX1013) □ DCAT ARC 603/604 B2 F4 C  
 (BX1014) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) Δ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	60.000	100.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



PITCH MODULATION EFFECT

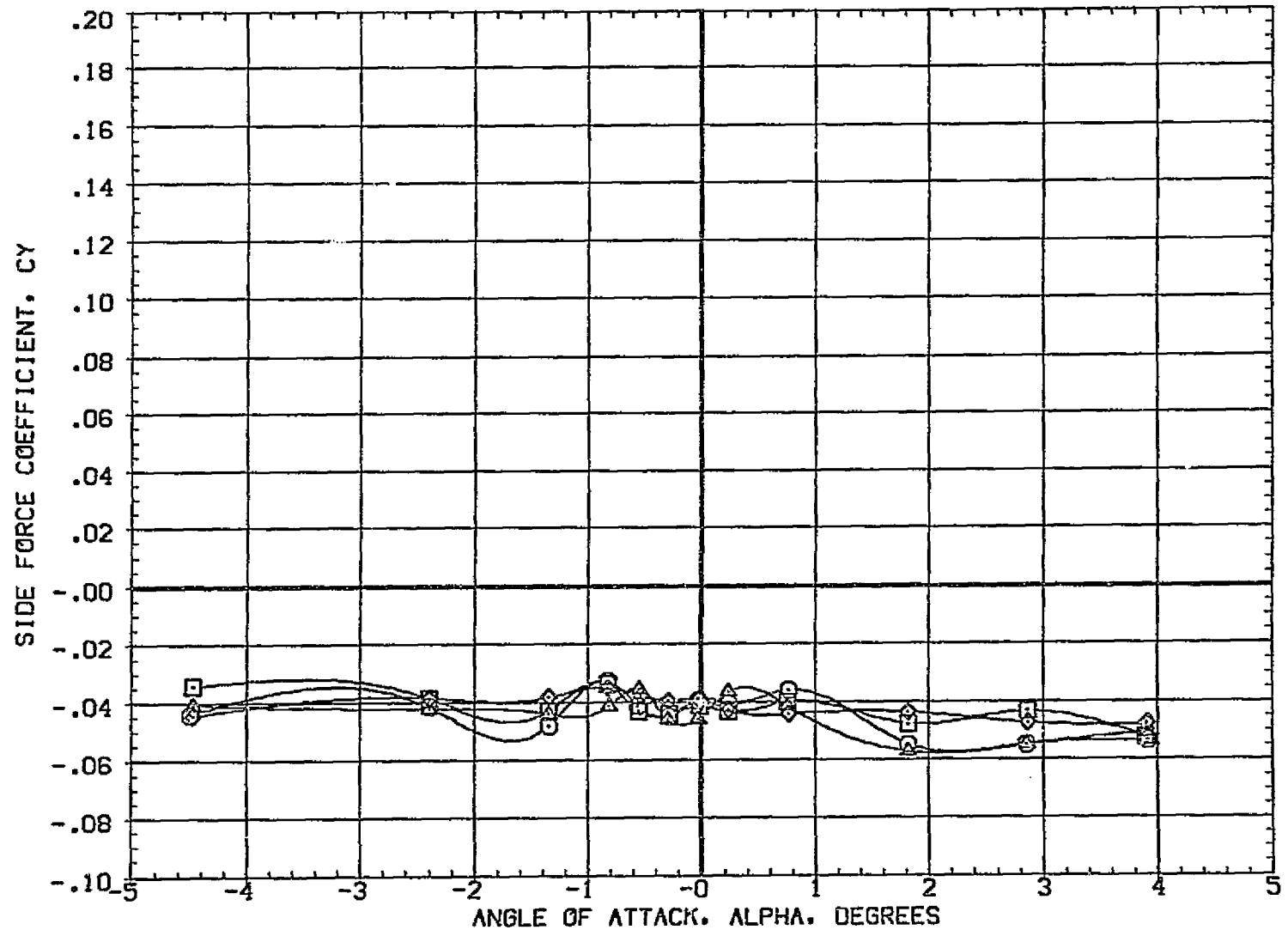
(E)MACH = 1.10

PAGE 126

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) O DCAT ARC 603/604 B2 F4 C  
 (BX1013) □ DCAT ARC 603/604 B2 F4 C  
 (BX1014) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) Δ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/PF	REFERENCE INFORMATION
.000	.000	100.000	86.000	SREF .1100 SQ.FT.
.000	40.000	100.000	86.000	LREF .3750 FT.
.000	60.000	100.000	86.000	BREF .3750 FT.
.000	100.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCNT

>0.5%



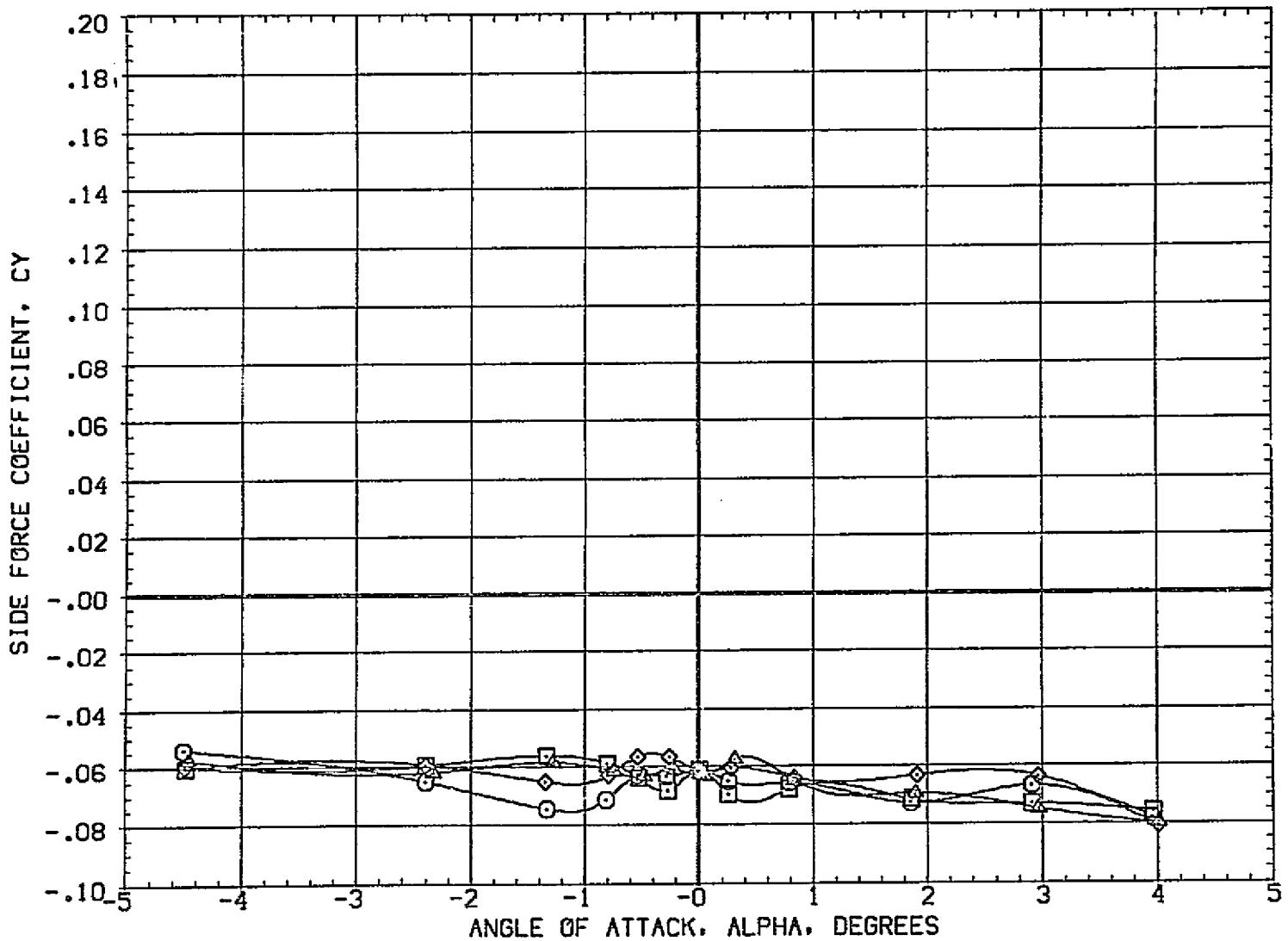
### PITCH MODULATION EFFECT

(F)MACH = 1.56

PAGE 127

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1012) O DCAT ARC 603/603 B2 F4 C  
 (BX1013) □ DCAT ARC 603/604 B2 F4 C  
 (BX1014) ◇ DCAT ARC 603/604 B2 F4 C  
 (BX1015) △ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	60.000	100.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



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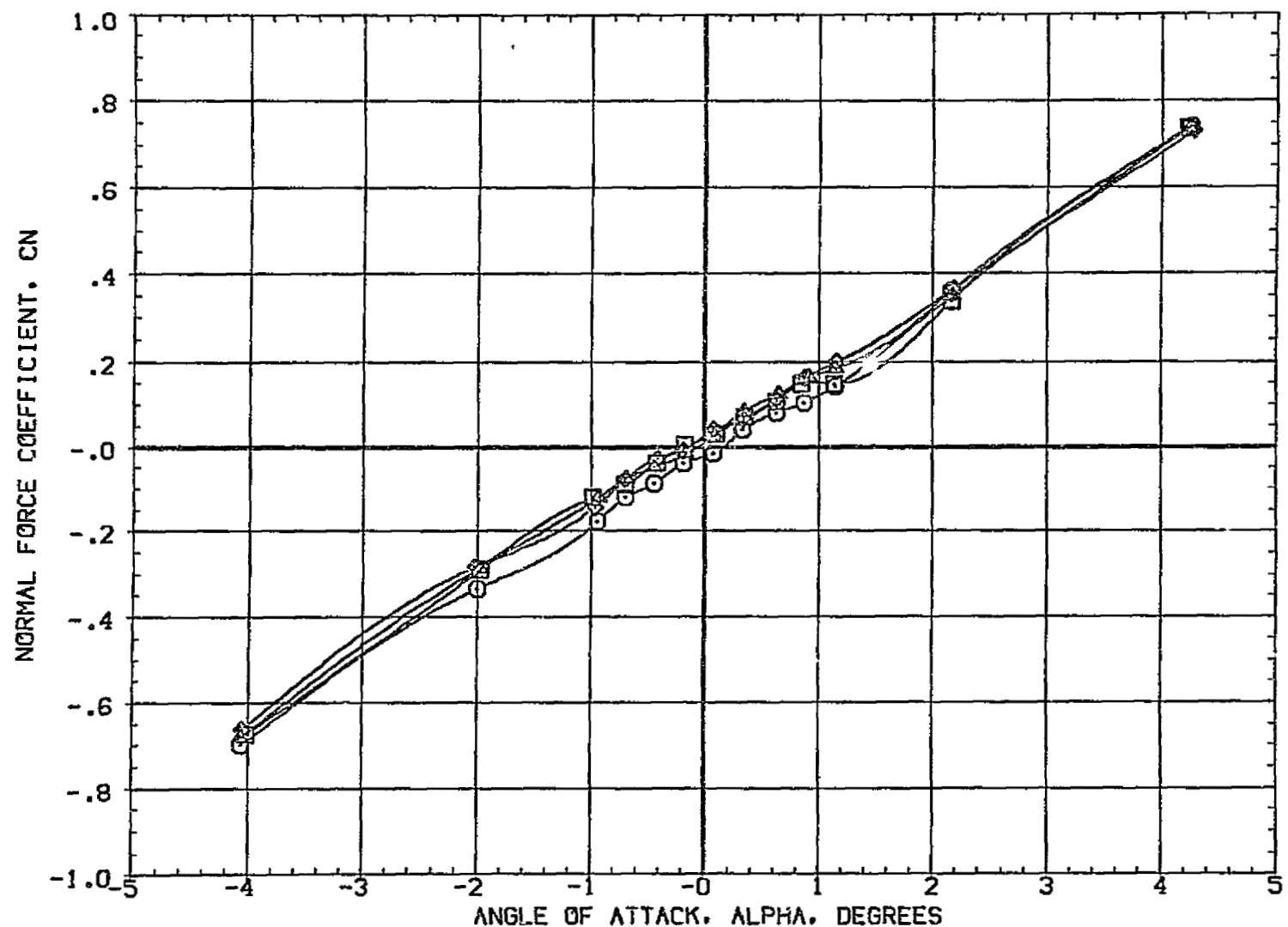
PITCH MODULATION EFFECT

(G)MACH = 1.80

PAGE 128

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1009) X DCAT ARC 603/604 B2 F4 C  
 (BX1012) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 SQ.FT.
.000	.000	40.000	86.000	LREF .3750 FT.
.000	.000	60.000	86.000	BREF .3750 FT.
.000	.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCNT



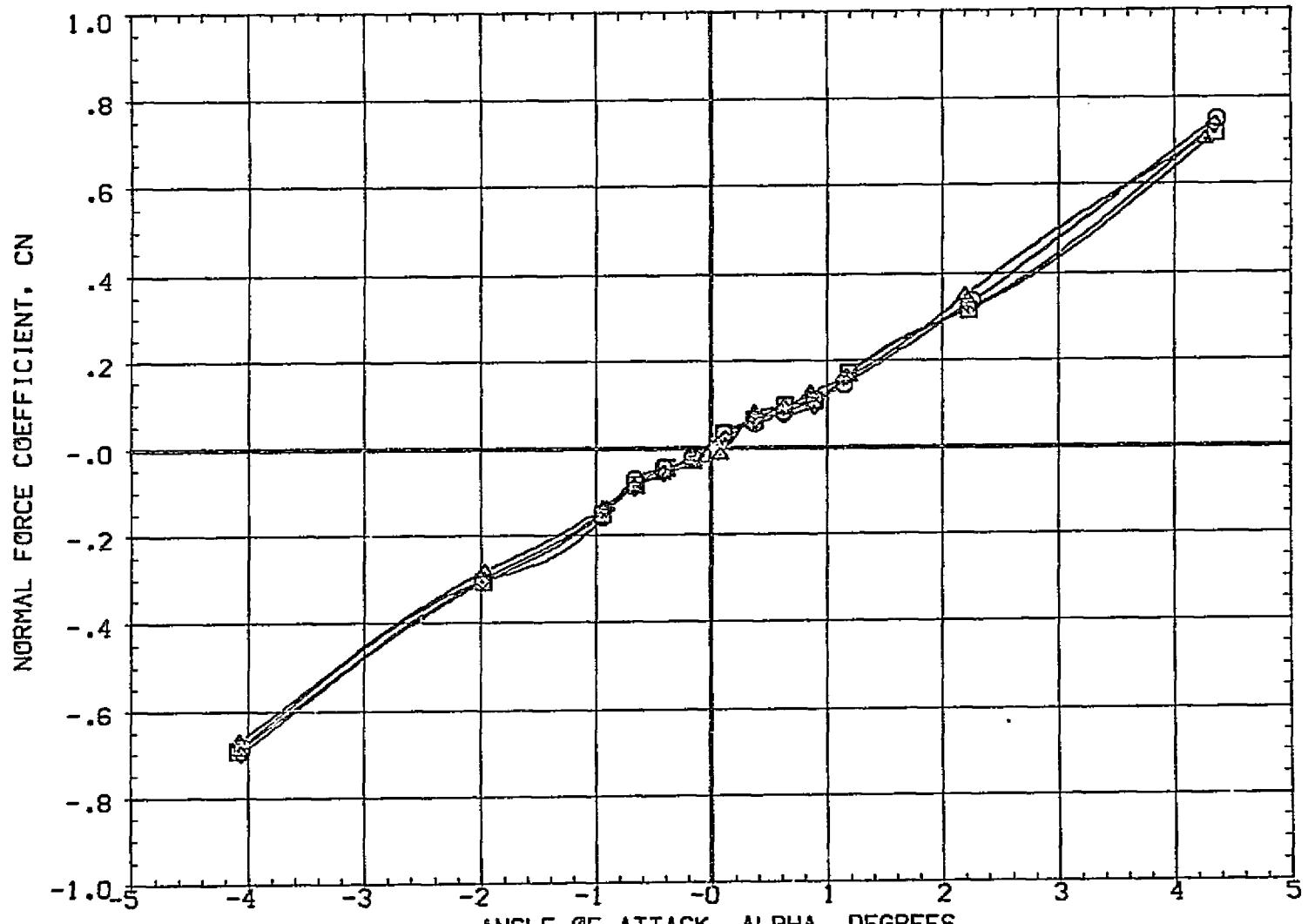
YAW MODULATION EFFECT

(A)MACH = 0.64

PAGE 129

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) □ DCAT ARC 603/604 B2 F4 C  
 (BX1009) X DCAT ARC 603/604 B2 F4 C  
 (BX1012) Δ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 SQ.FT.
.000	.000	40.000	86.000	LREF .3750 FT.
.000	.000	60.000	86.000	BREF .3750 FT.
.000	.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCNT



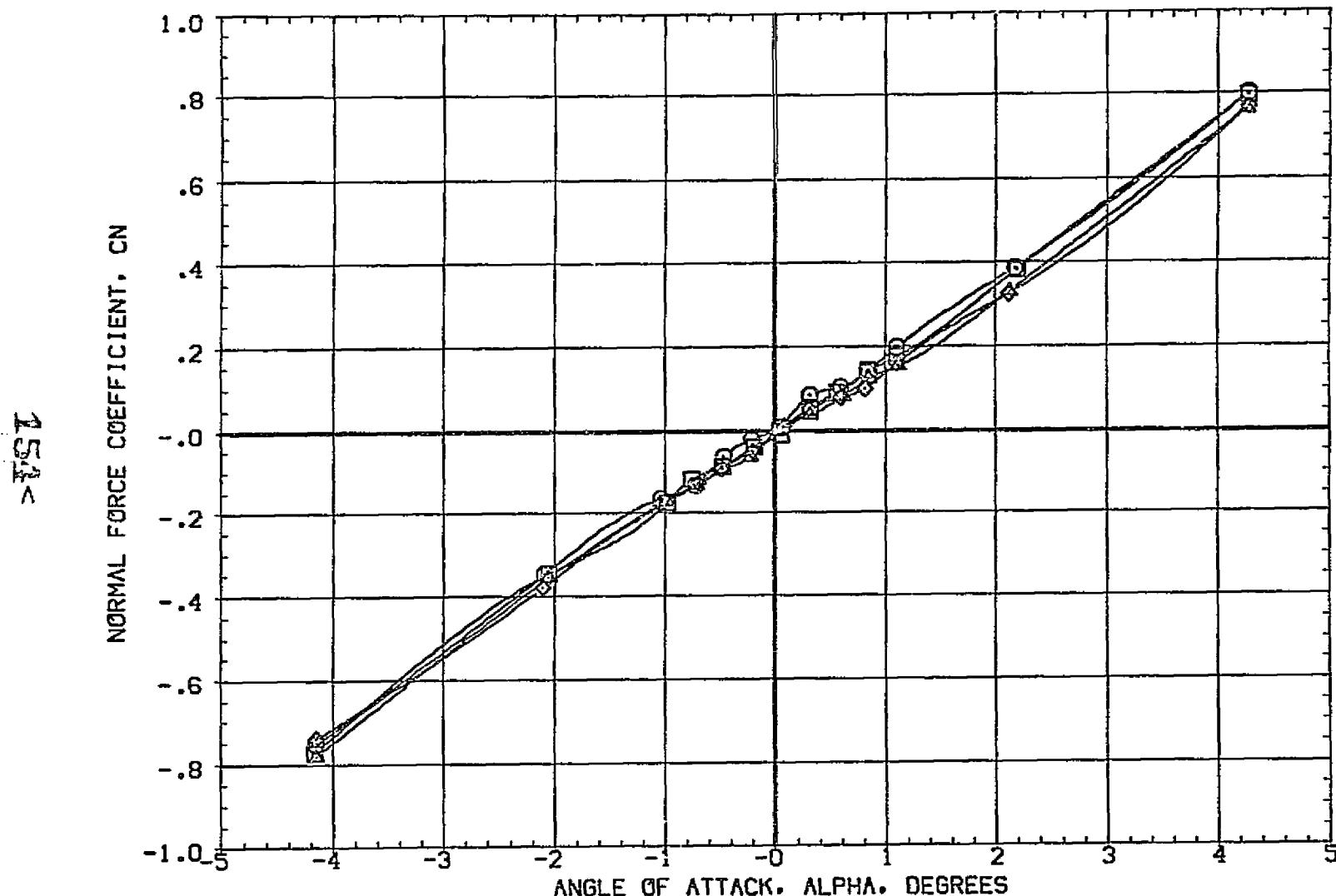
YAW MODULATION EFFECT

(B)MACH = 0.80

PAGE 130

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) X DCAT ARC 603/604 B2 F4 C  
 (BX1009) D DCAT ARC 603/604 B2 F4 C  
 (BX1012) □ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SG.FT.
.000	.000	40.000	86.000	LREF	.3750 FT.
.000	.000	60.000	86.000	BREF	.3750 FT.
.000	.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



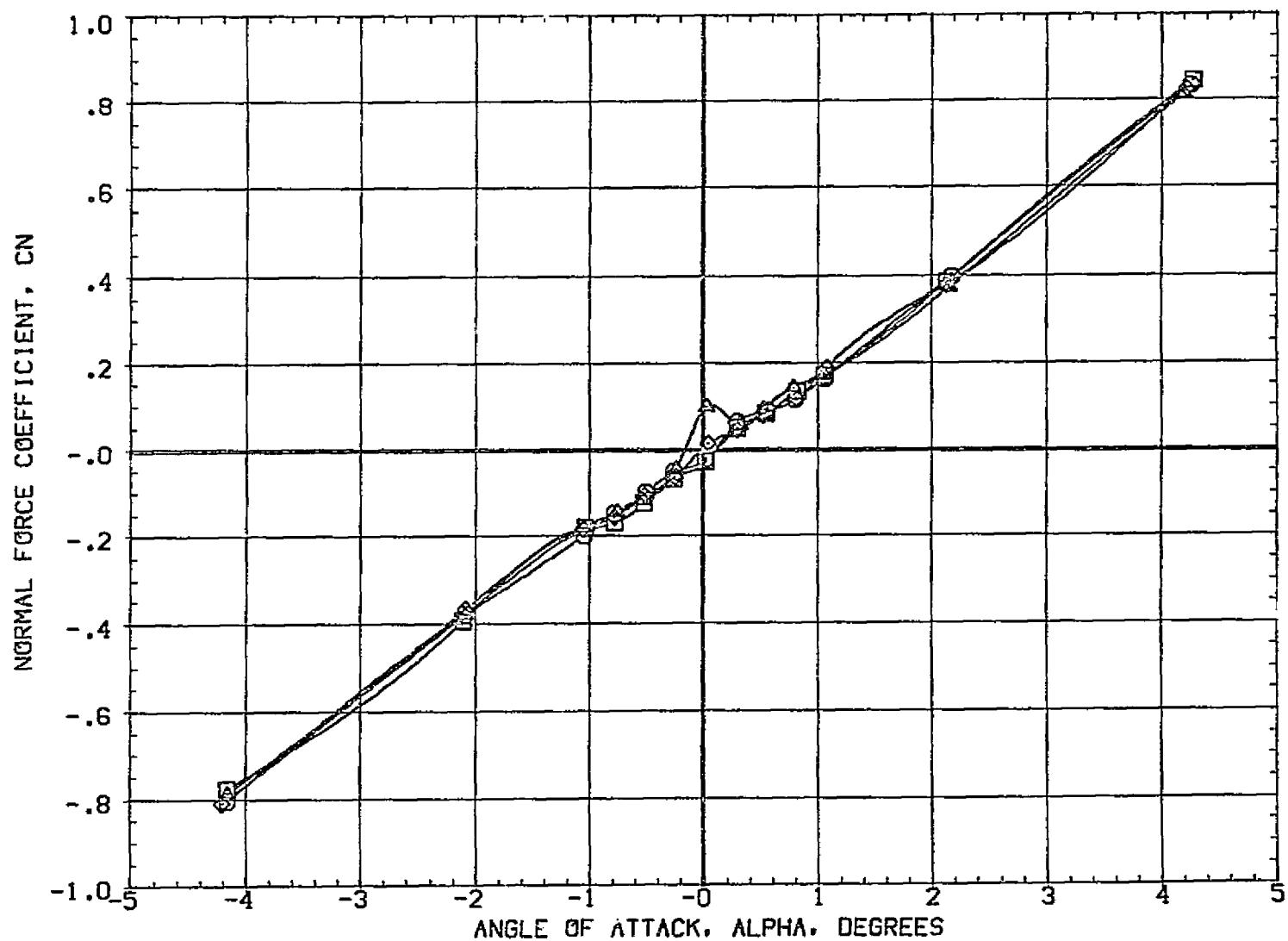
YAW MODULATION EFFECT

(C)MACH = 0.95

PAGE 131

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 F, F4 C  
 (BX1006) □ DCAT ARC 603/604 B2 F4 C  
 (BX1009) Δ DCAT ARC 603/604 B2 F4 C  
 (BX1012) △ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	.000	40.000	86.000	LREF	.2750 FT.
.000	.000	60.000	86.000	BREF	.3750 FT.
.000	.000	100.000	86.000	XRP	.0000 FT.
				YRP	.0000 FT.
				ZRP	.0000 FT.
				SCALE	125.0000 PERCNT

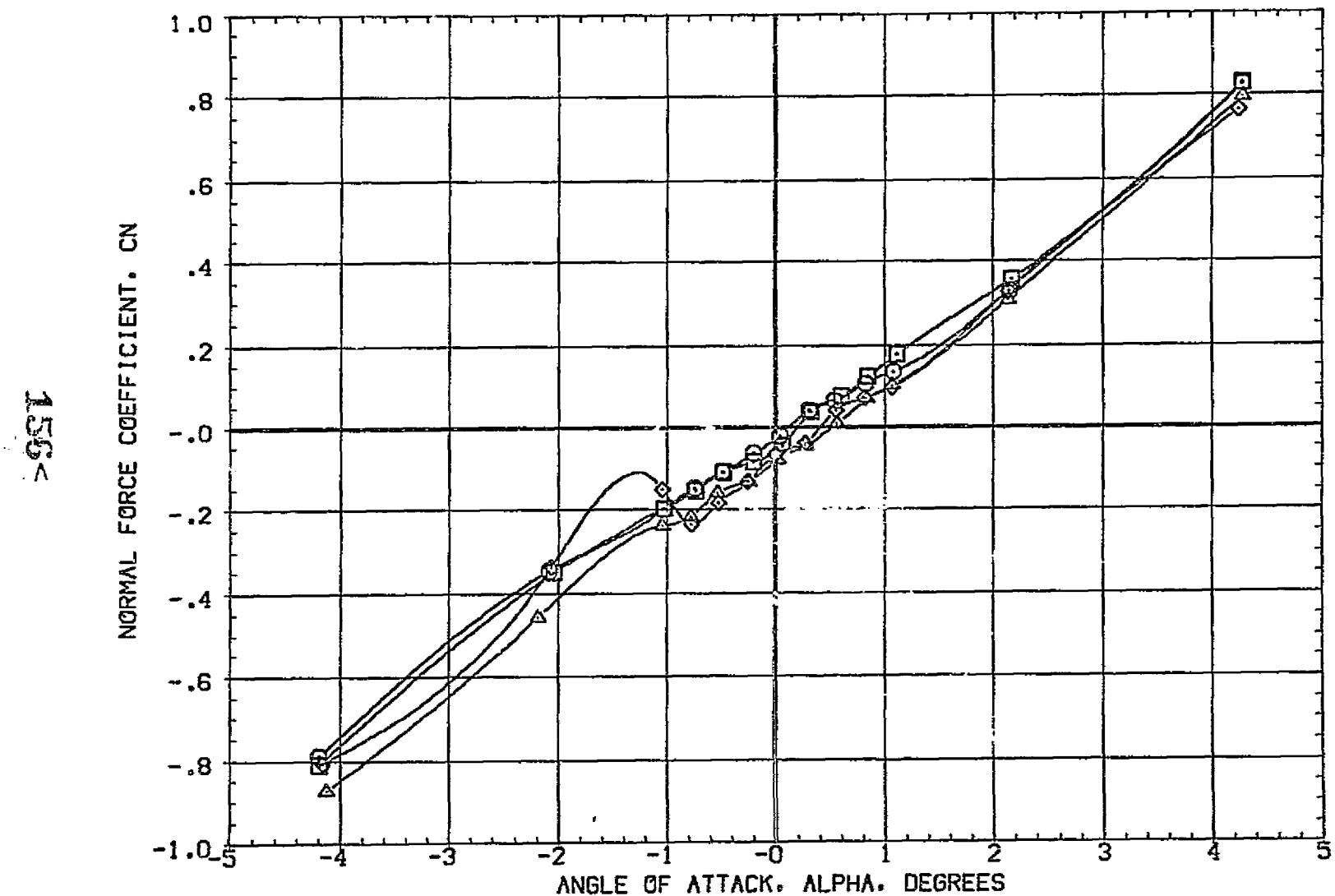


YAW MODULATION EFFECT

CDIMACH = 1.00

PAGE 132

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
(BX1002)	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000	SREF	.1100 SQ.FT.
(BX1006)	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000	LREF	.3750 FT.
(BX1009)	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000	BREF	.3750 FT.
(BX1012)	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000	XMRP	.0000 FT.
						YMRP	.0000 FT.
						ZMRP	.0000 FT.
						SCALE	125.0000 PERCNT



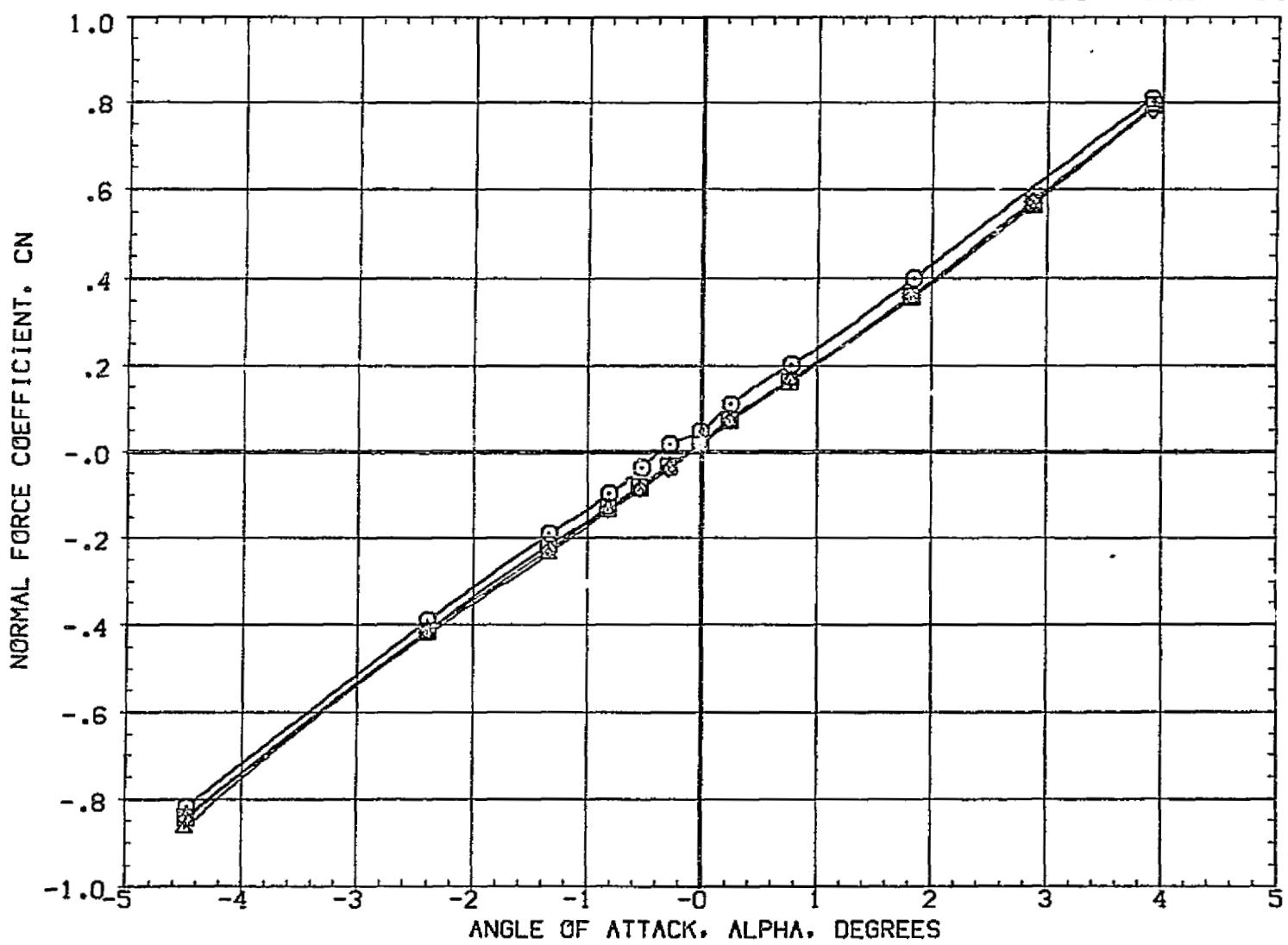
YAW MODULATION EFFECT

(E)MACH = 1.10

PAGE 133

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1009) X DCAT ARC 603/604 B2 F4 C  
 (BX1012) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	.000	40.000	86.000	LREF	.3750 FT.
.000	.000	60.000	86.000	BREF	.3750 FT.
.000	.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



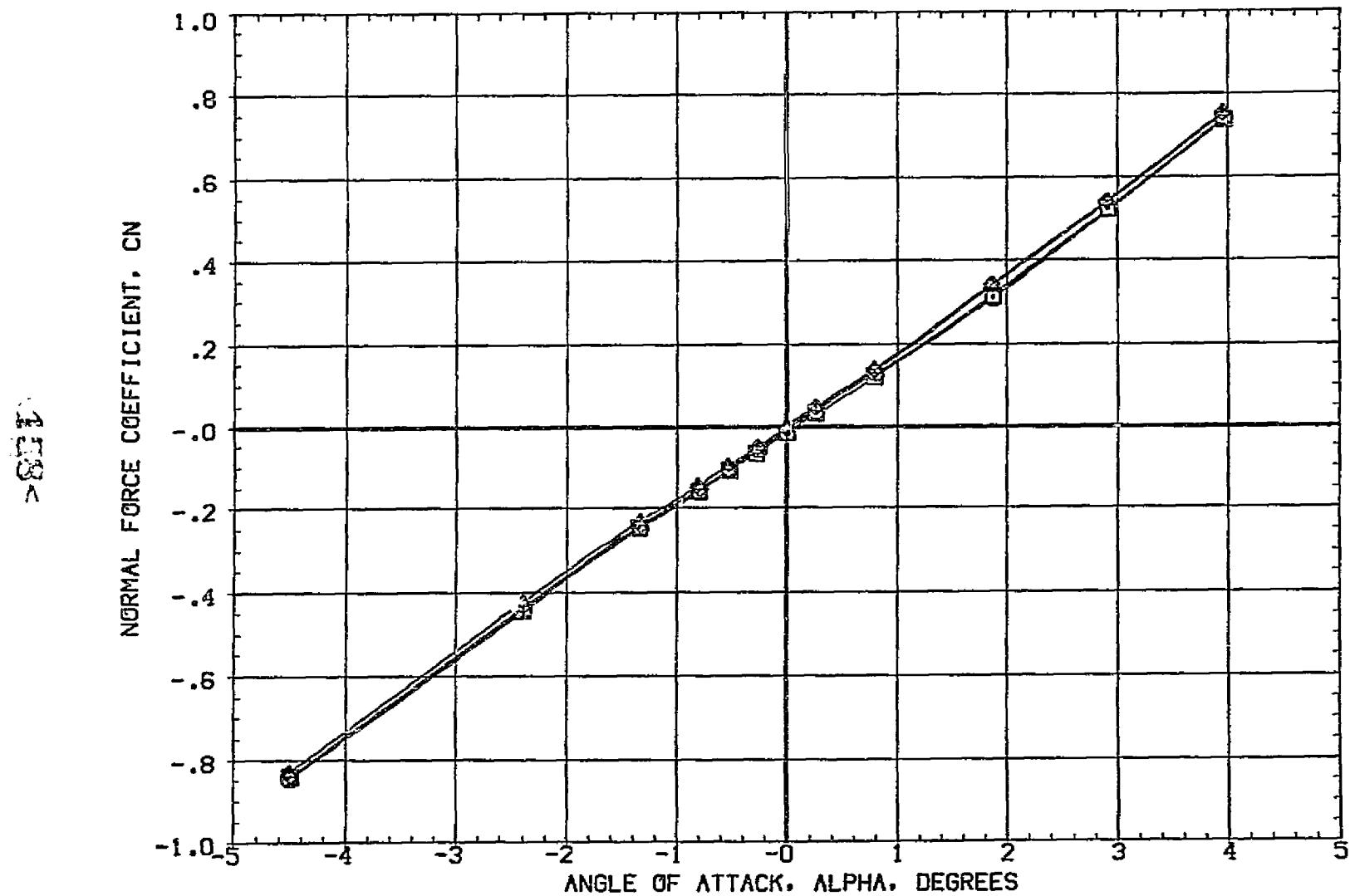
YAW MODULATION EFFECT

(F)MACH = 1.56

PAGE 134

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) □ DCAT ARC 603/604 B2 F4 C  
 (BX1009) X DCAT ARC 603/604 B2 F4 C  
 (BX1012) A DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	.000	85.000	SREF .1100 SQ.FT.
.000	.000	40.000	85.000	LREF .3750 FT.
.000	.000	60.000	85.000	BREF .3750 FT.
.000	.000	100.000	85.000	XHPP .0000 FT.
				YHPP .0000 FT.
				ZHPP .0000 FT.
				SCALE 125.0000 PERCENT



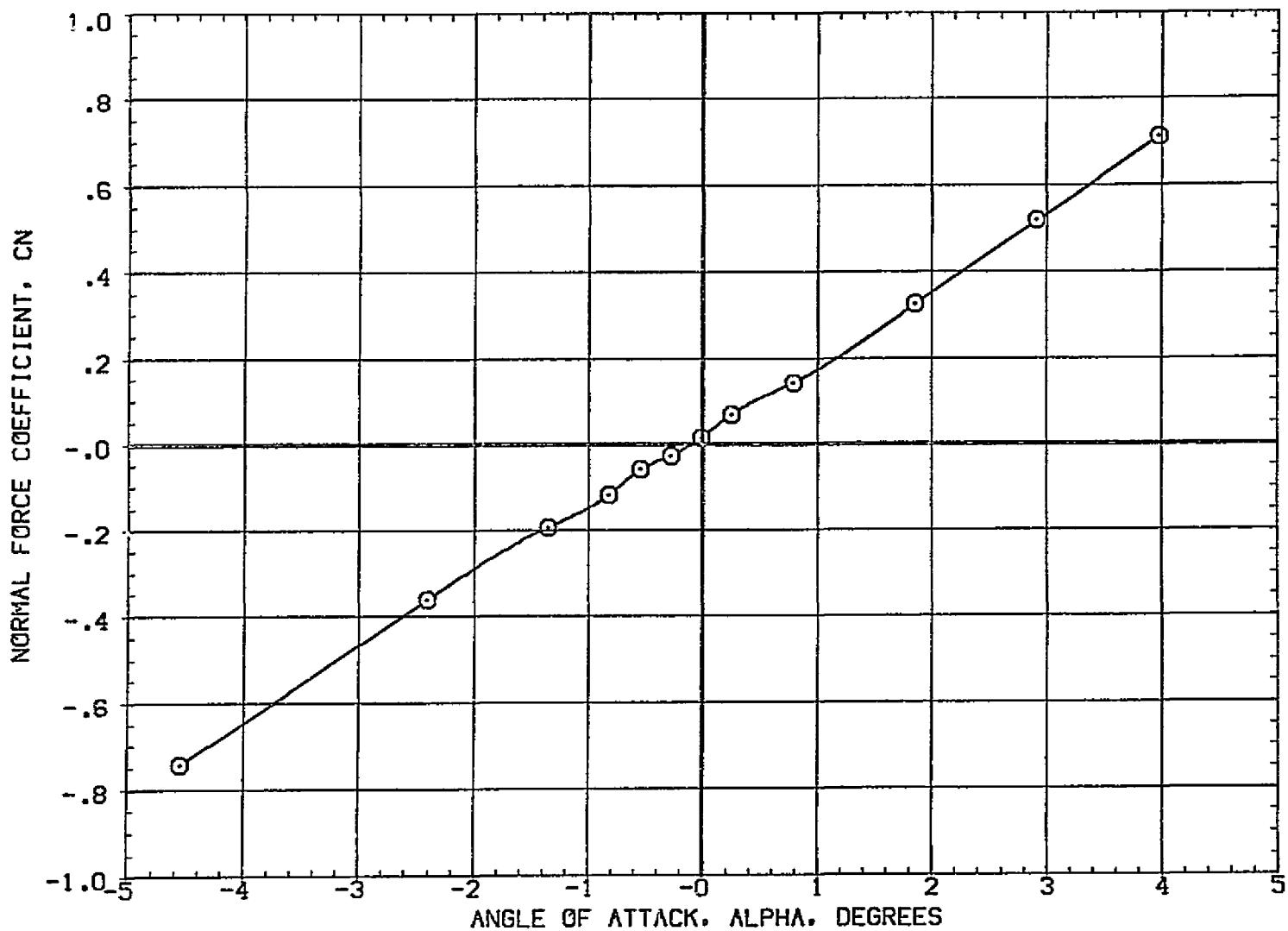
YAW MODULATION EFFECT

(G)MACH = 1.80

PAGE 135

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 R2 F4 C  
 (BX1005)  DATA NOT AVAILABLE  
 (BX1009)  DATA NOT AVAILABLE  
 (BX1012)  DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	.000	66.000	SREF	.1100 SD.FT.
.000	.000	40.000	66.000	LREF	.3750 FT.
.000	.000	60.000	66.000	BREF	.3750 FT.
.000	.000	100.000	66.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



### YAW MODULATION EFFECT

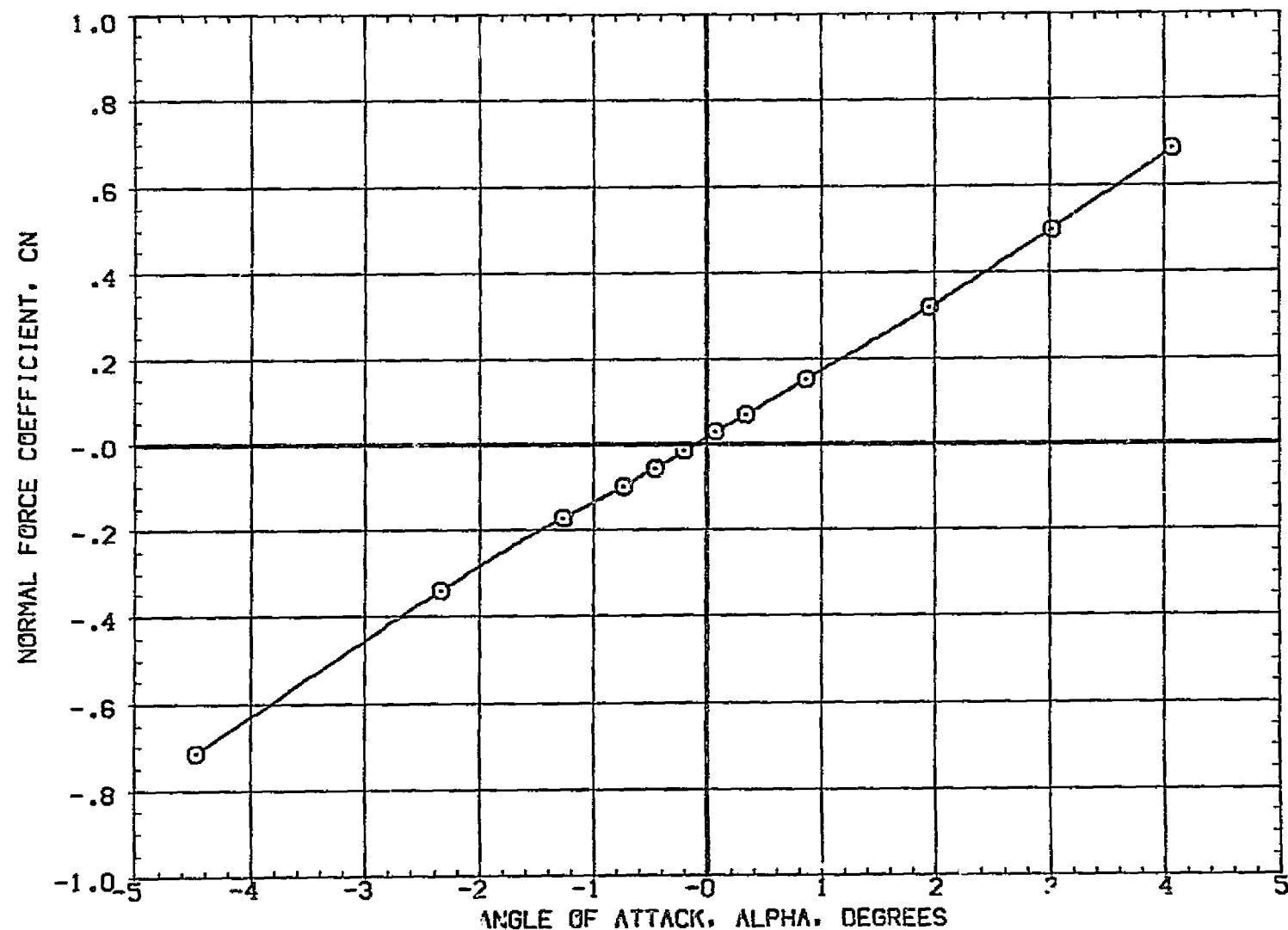
CHMACH - 2 20

PAGE 136

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 503/604 B2 F4 C  
 (BX1006) X DATA NOT AVAILABLE  
 (BX1009) X DATA NOT AVAILABLE  
 (BX1012) X DATA NOT AVAILABLE

EETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SD.FT.
.000	.000	40.000	86.000	LREF	.3750 FT.
.000	.000	60.000	86.000	BREF	.3750 FT.
.000	.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT

>GOT



YAW MODULATION EFFECT

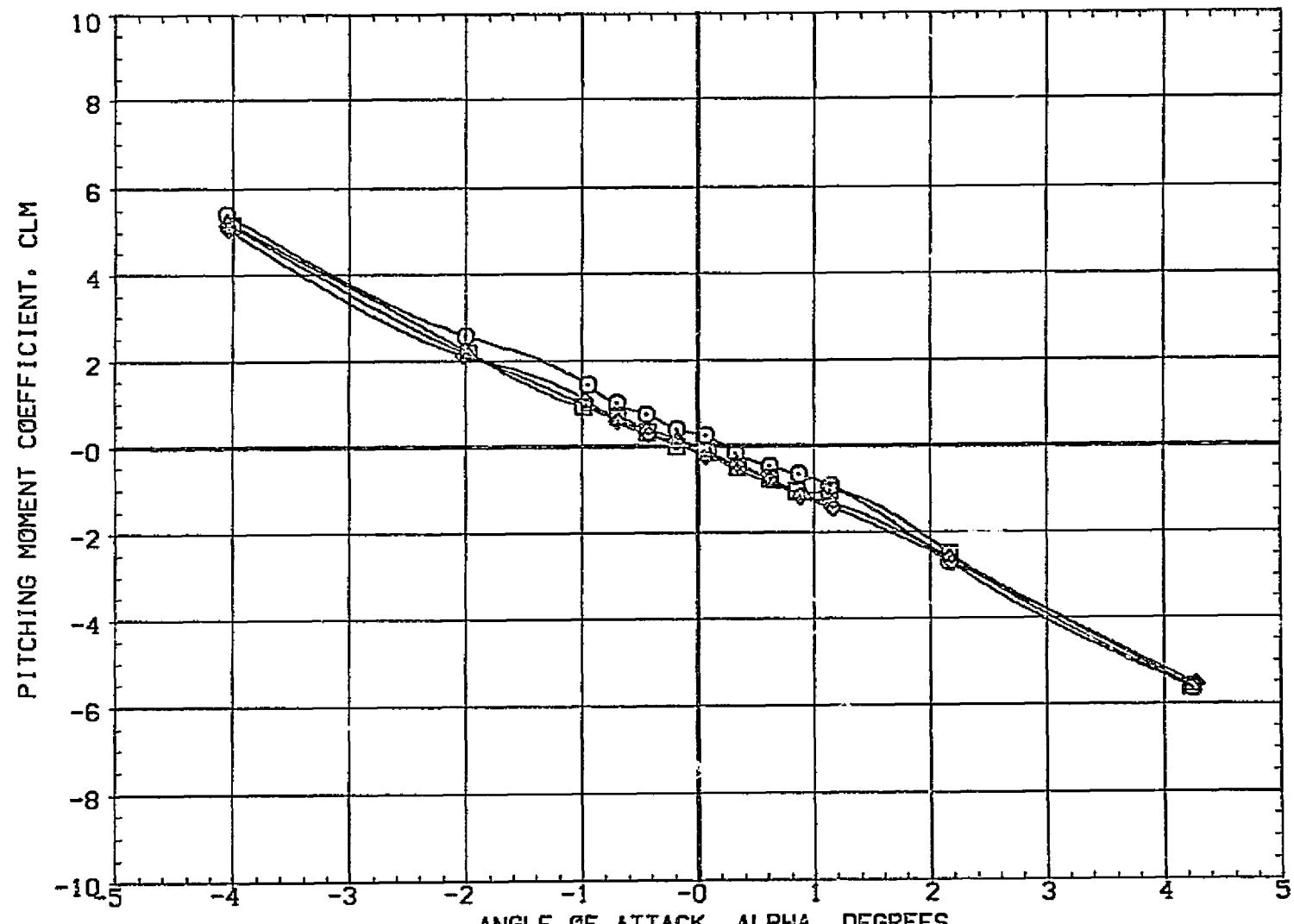
(1)MACH = 2.50

PAGE 137

DATA SET SYMBOL CONFIGURATION, DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) □ DCAT ARC 603/604 B1 F4 C  
 (BX1009) X DCAT ARC 603/604 B2 F4 C  
 (BX1012) ✕ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 SQ.FT.
.000	.000	40.000	86.000	LREF .3750 FT.
.000	.000	50.000	86.000	BREF .3750 FT.
.000	.000	100.000	86.000	XMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT

>TEST



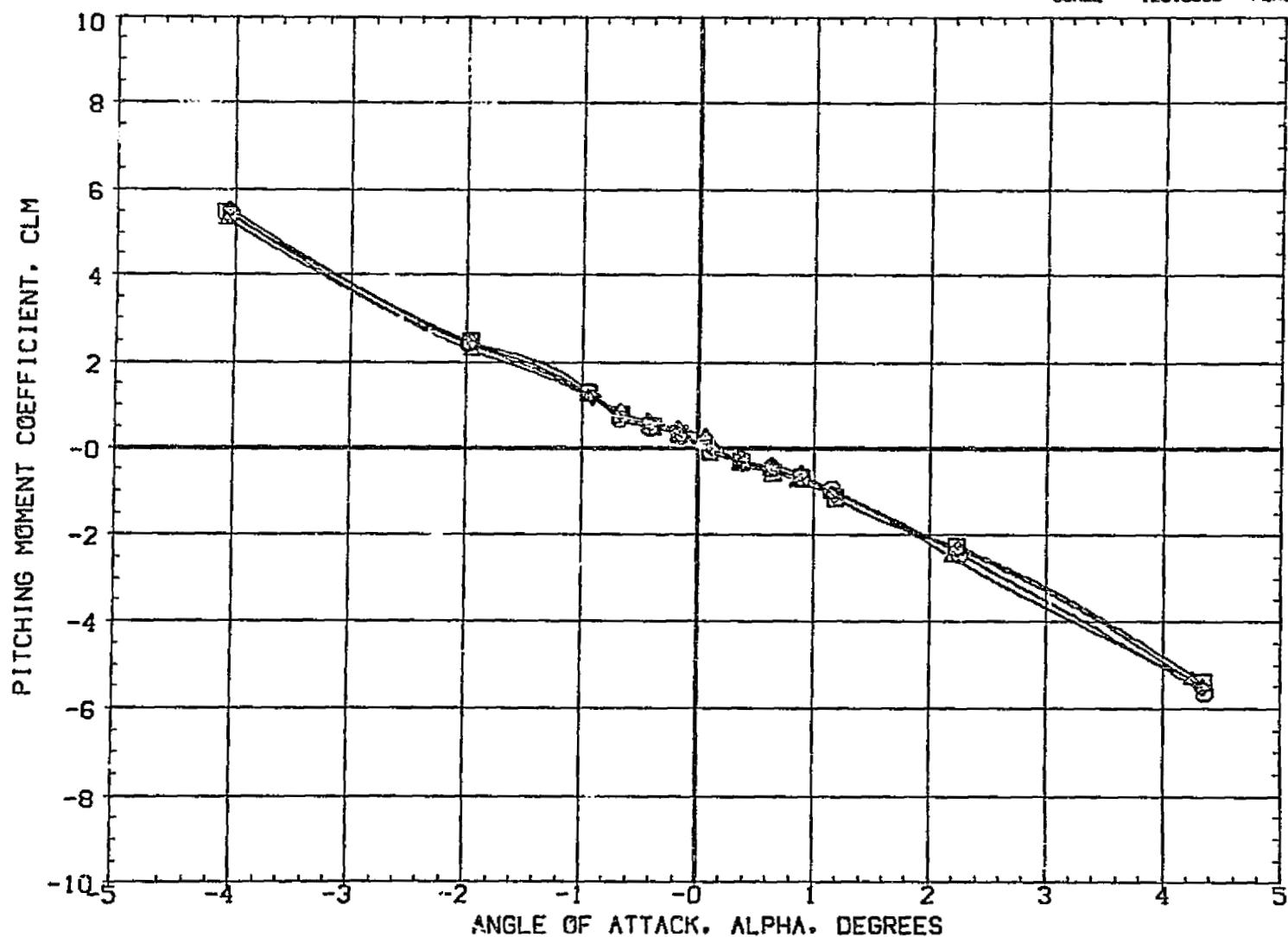
YAW MODULATION EFFECT

CADMACH = 0.64

PAGE 138

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) □ DCAT ARC 603/604 B2 F4 C  
 (BX1009) △ DCAT ARC 603/604 B2 F4 C  
 (BX1012) ▽ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POU/PF	REFERENCE	INFORMATION
.000	.000	.000	66.000	SREF	.1100 SQ.FT.
.000	.000	40.000	66.000	LREF	.3750 FT.
.000	.000	60.000	65.000	SREF	.3750 FT.
.000	.000	100.000	65.000	XRP	.0000 FT.
				YRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



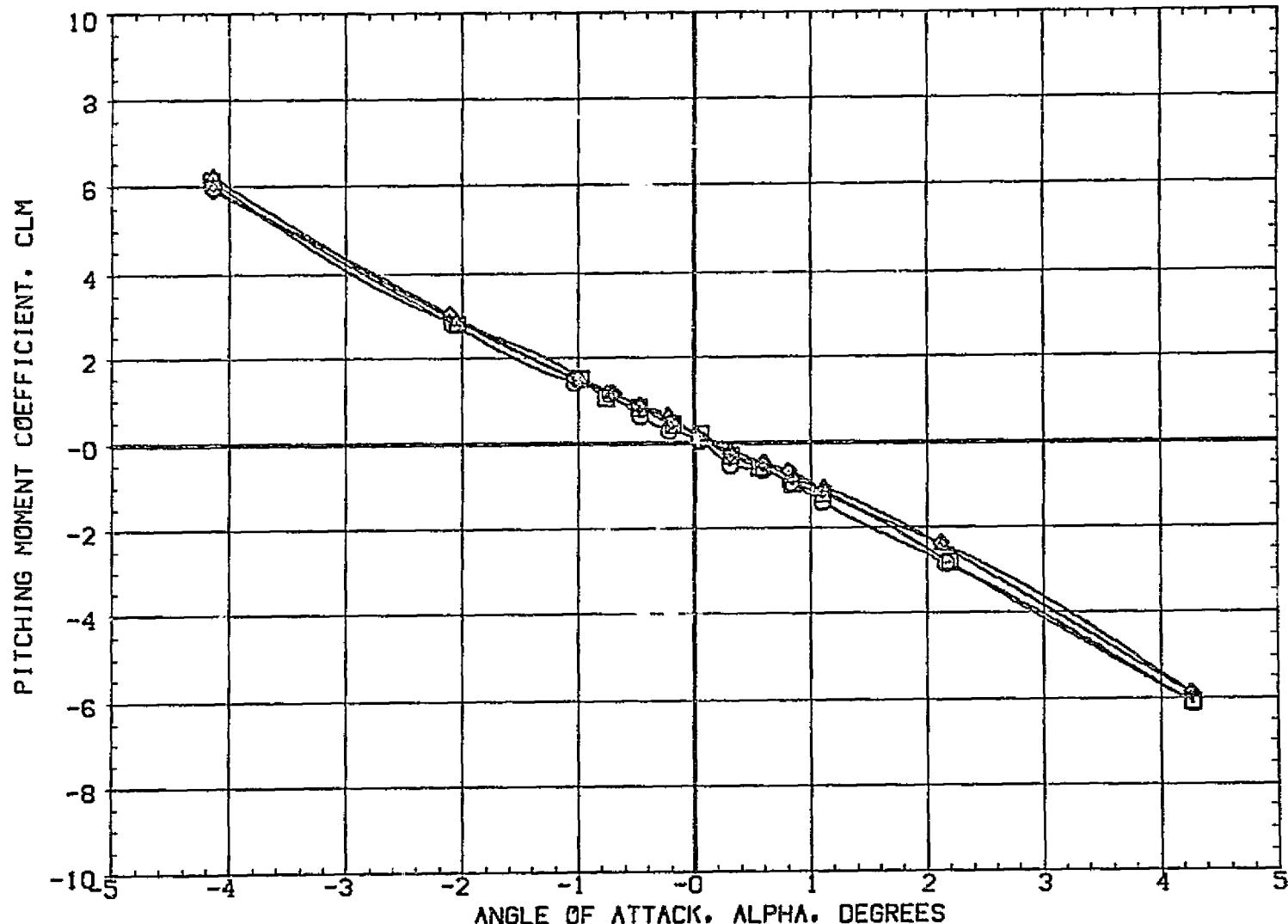
YAW MODULATION EFFECT

(B)MACH = 0.80

PAGE 139

DATA SET SYMBOL CONFIGURATION DESIGNATION  
 (BX1002)  DCAT ARC 603/604 L F4 C  
 (BX1006)  DCAT ARC 603/604 U2 F4 C  
 (BX1009)  DCAT ARC 603/604 B2 F4 C  
 (BX1012)  DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	.000	40.000	86.000	LREF	.3750 FT.
.000	.000	60.000	86.000	BREF	.3750 FT.
.000	.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



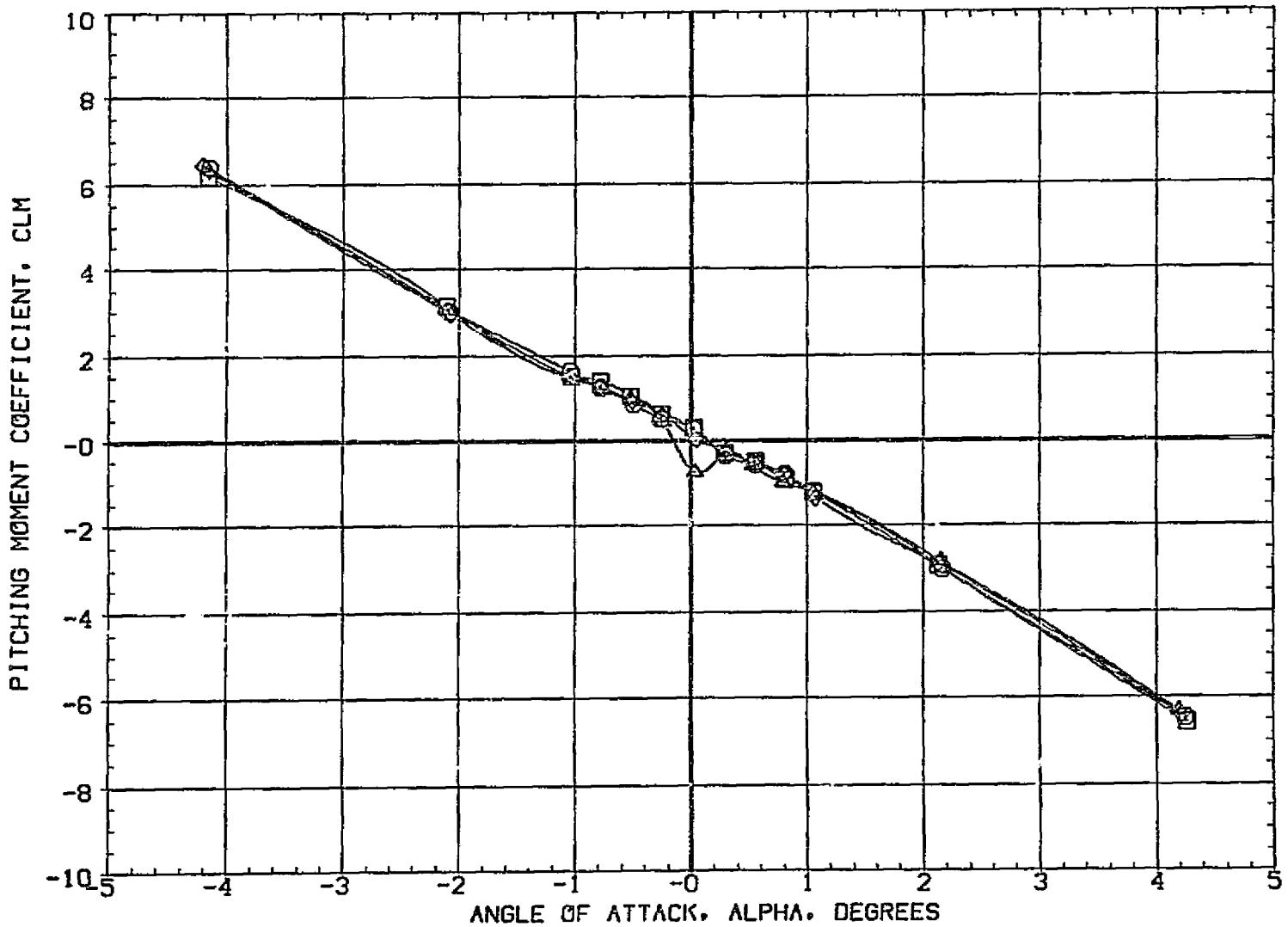
YAW MODULATION EFFECT

V01MACH = 0.95

PAGE 140

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) ODCAT ARC 603/604 B2 F4 C  
 (BX1009) XDCAT ARC 603/604 B2 F4 C  
 (BX1012) A DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 SQ.FT.
.000	.000	40.000	86.000	LREF .3750 FT.
.000	.000	60.000	86.000	BREF .3750 FT.
.000	.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCNT



YAW MODULATION EFFECT

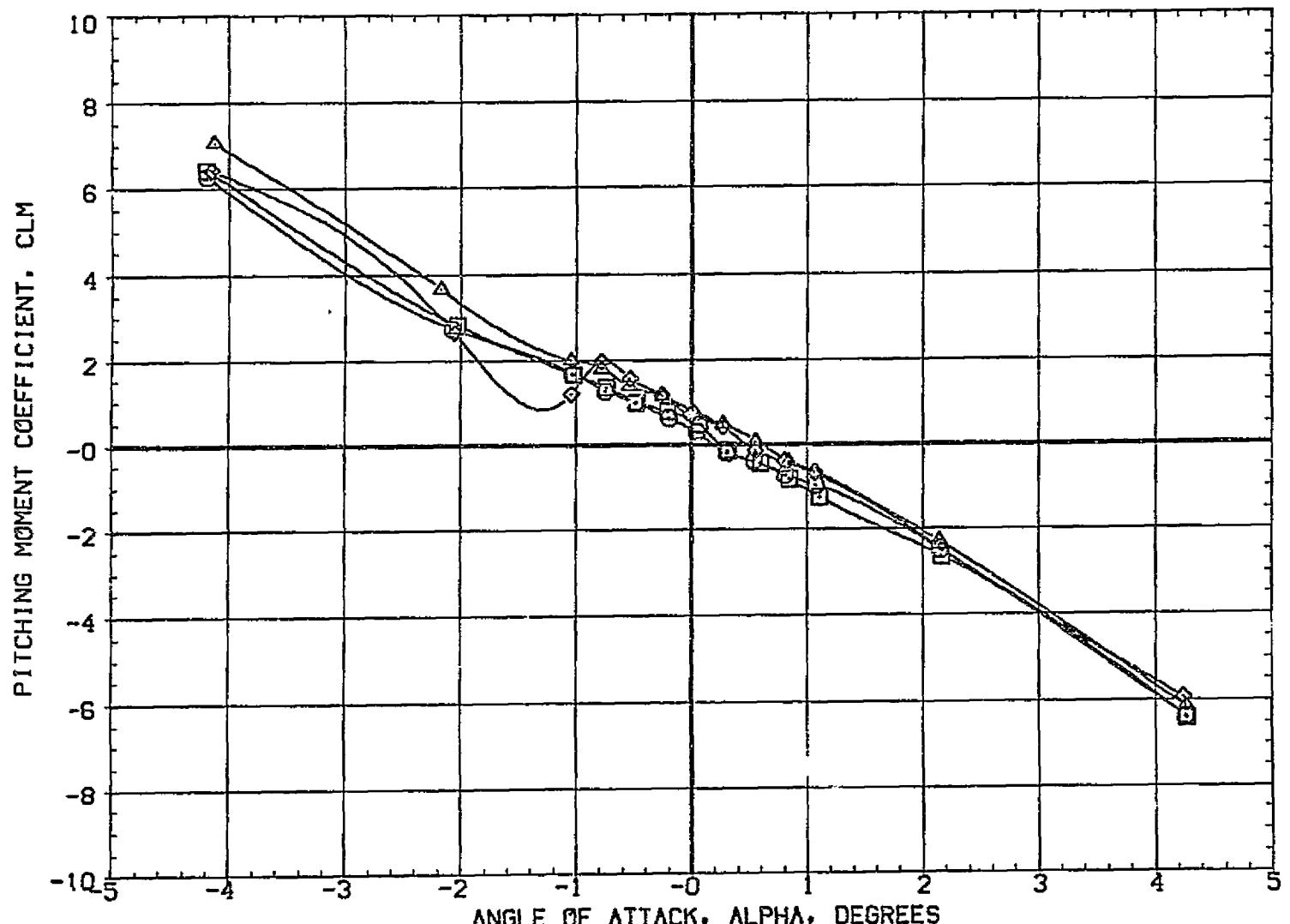
(CD)MACH = 1.00

PAGE 141

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) □ DCAT ARC 603/604 B2 F4 C  
 (BX1009) X DCAT ARC 603/604 B2 F4 C  
 (BX1012) Δ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	.000	40.000	86.000	LREF	.3750 FT.
.000	.000	60.000	86.000	BREF	.3750 FT.
.000	.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT

>SOT



YAW MODULATION EFFECT

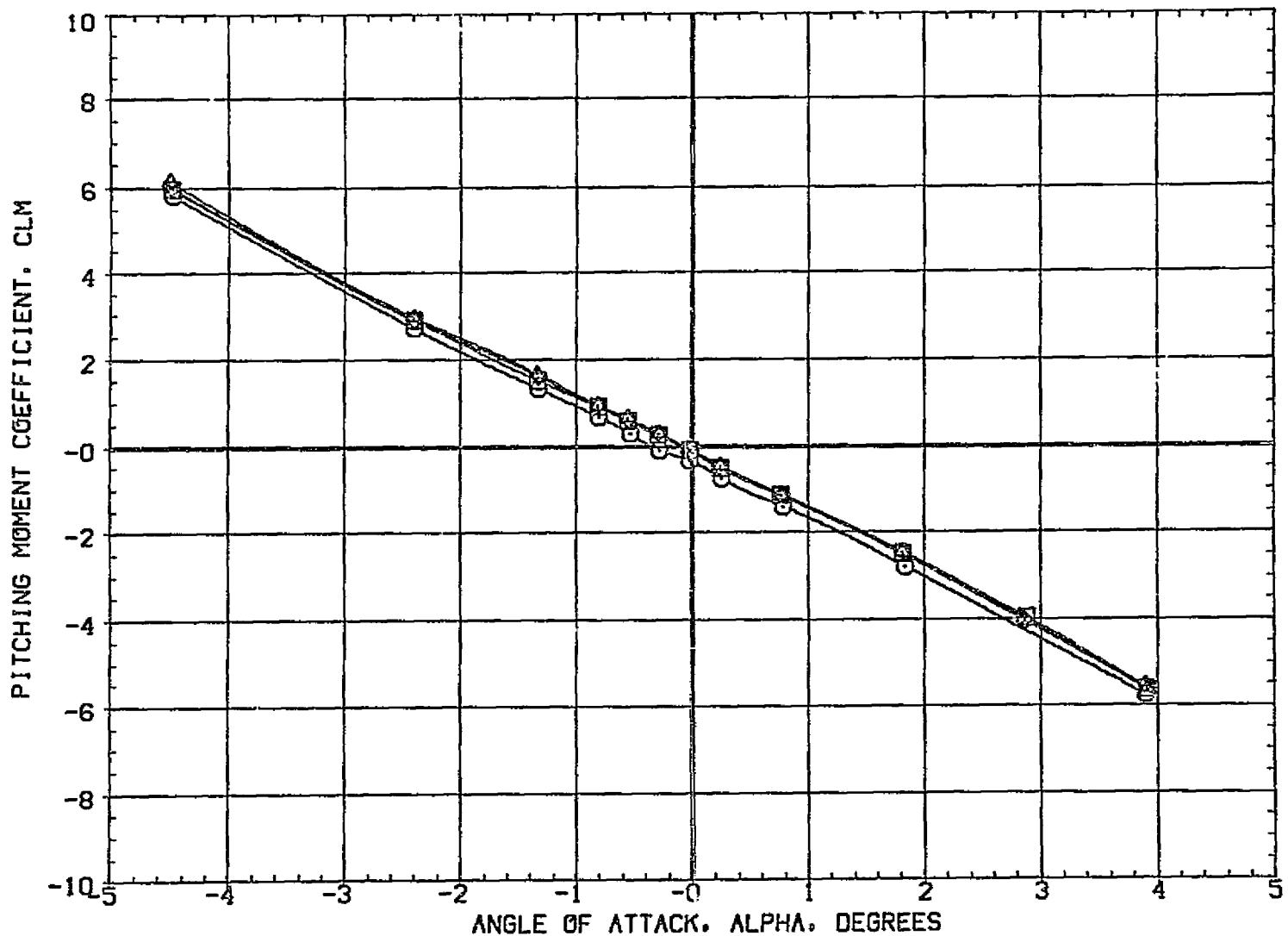
(E)MACH = 1.10

PAGE 142

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) □ DCAT ARC 603/604 B2 F4 C  
 (BX1009) X DCAT ARC 603/604 B2 F4 C  
 (BX1012) △ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	.000	40.000	86.000	LREF	.3750 FT.
.000	.000	60.000	86.000	BREF	.3750 FT.
.000	.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

16  
 >390



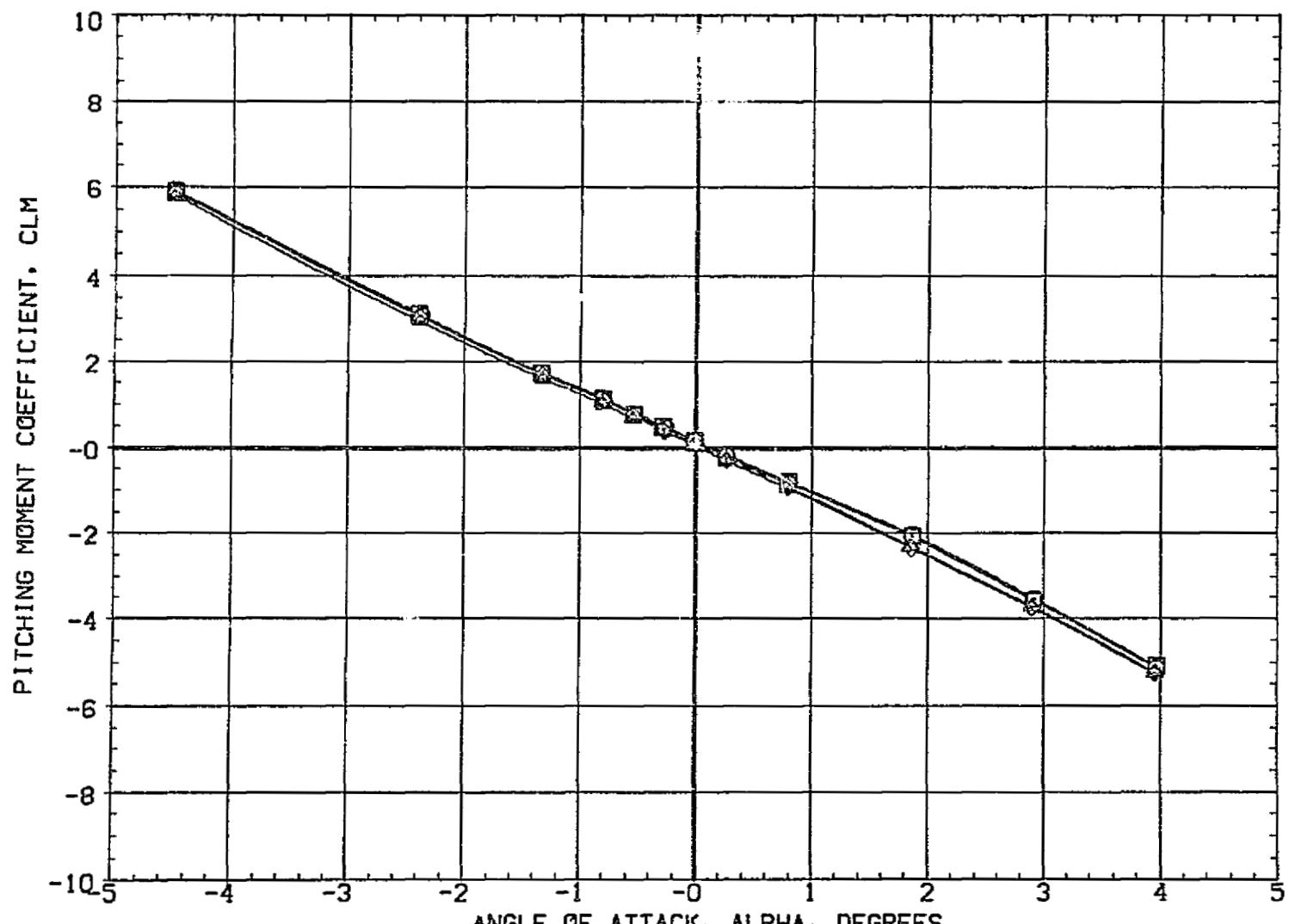
YAW MODULATION EFFECT

(F)MACH = 1.56

PAGE 143

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) □ DCAT ARC 603/604 B2 F4 C  
 (BX1009) X DCAT ARC 603/604 B2 F4 C  
 (BX1012) Δ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	.000	40.000	86.000	LREF	.3750 FT.
.000	.000	60.000	86.000	BREF	.3750 FT.
.000	.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



YAW MODULATION EFFECT

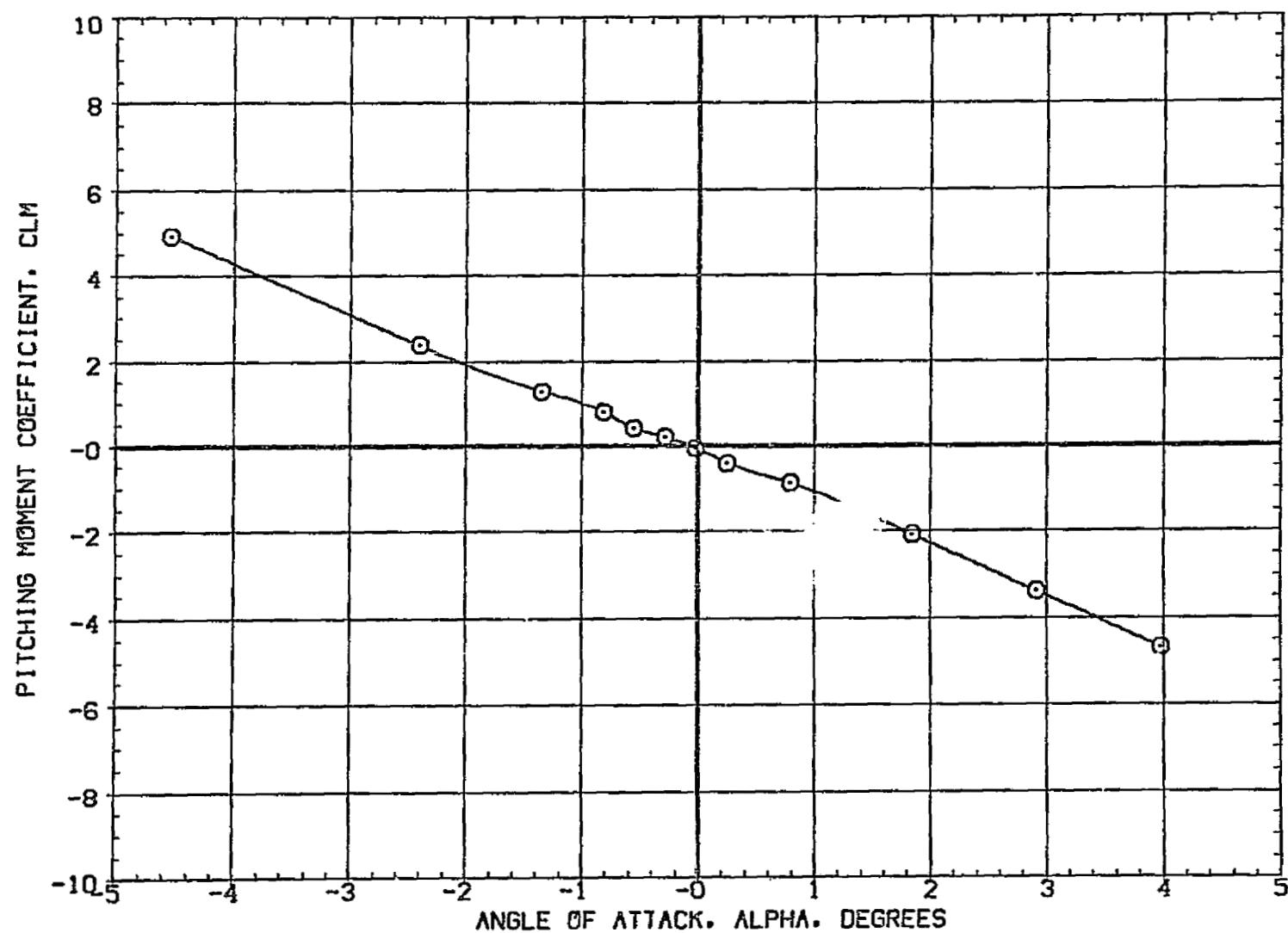
(G)MACH = 1.80

PAGE 144

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) □ DATA NOT AVAILABLE  
 (BX1009) × DATA NOT AVAILABLE  
 (BX1012) X DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1190 SQ.FT.
.000	.000	40.000	86.000	LREF	.3750 FT.
.000	.000	60.000	86.000	SREF	.3750 FT.
.000	.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

>30°



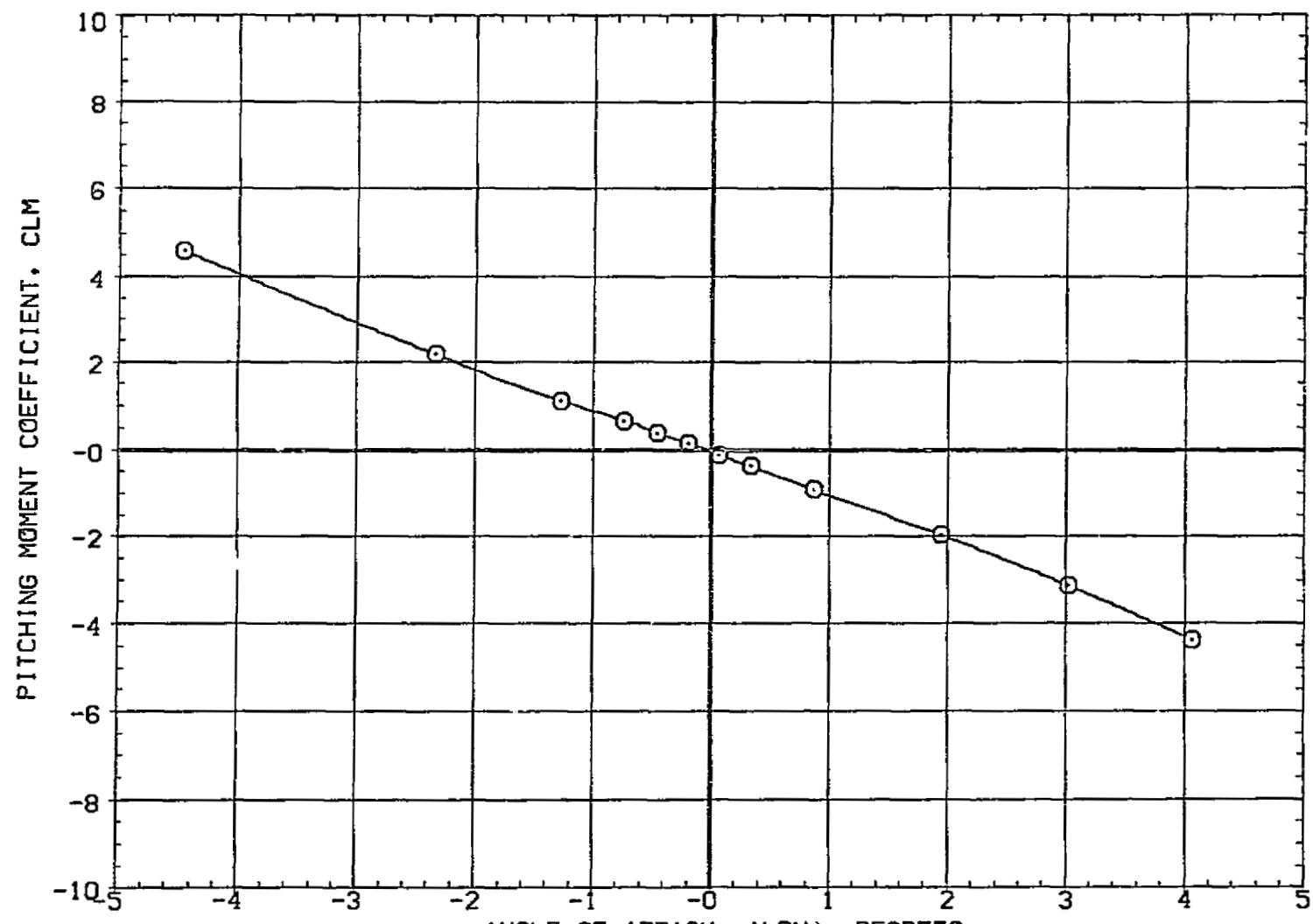
YAW MODULATION EFFECT  
 (H)MACH = 2.20

PAGE 145

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O CAT ARC 603/604 B2 F4 C  
 (BX1003) DATA NOT AVAILABLE  
 (BX1009) X DATA NOT AVAILABLE  
 (BX1012) D DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 SQ.FT.
.000	.000	40.000	86.000	LREF .3750 FT.
.000	.000	60.000	86.000	BREF .3750 FT.
.000	.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT

>CGIT



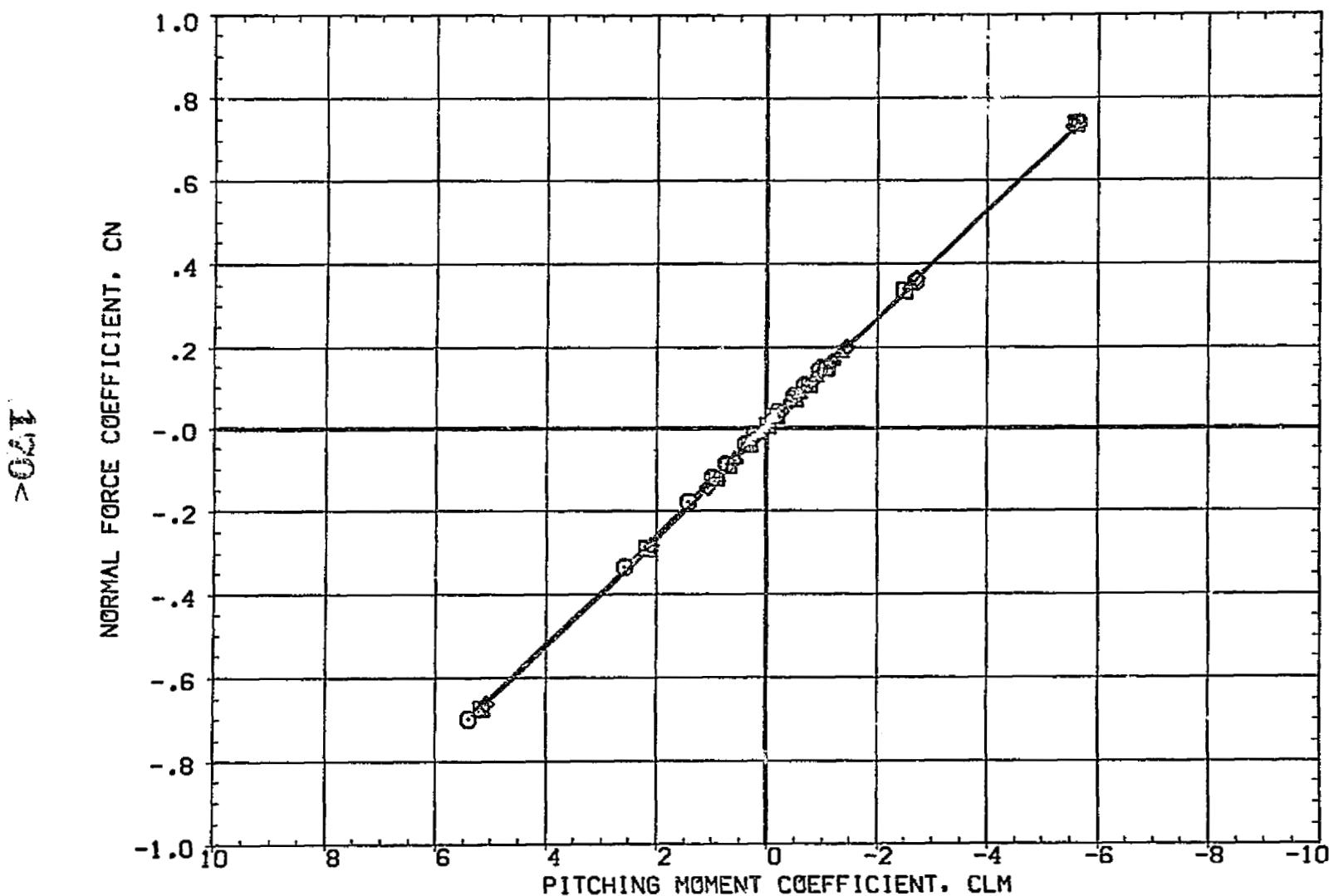
YAW MODULATION EFFECT

(1) MACH = 2.50

PAGE 146

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) □ DCAT ARC 603/604 B2 F4 C  
 (BX1009) × DCAT ARC 603/604 B2 F4 C  
 (BX1012) Δ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 S.FT.
.000	.000	40.000	86.000	LREF .3750 FT.
.000	.000	60.000	86.000	BREF .3750 FT.
.000	.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



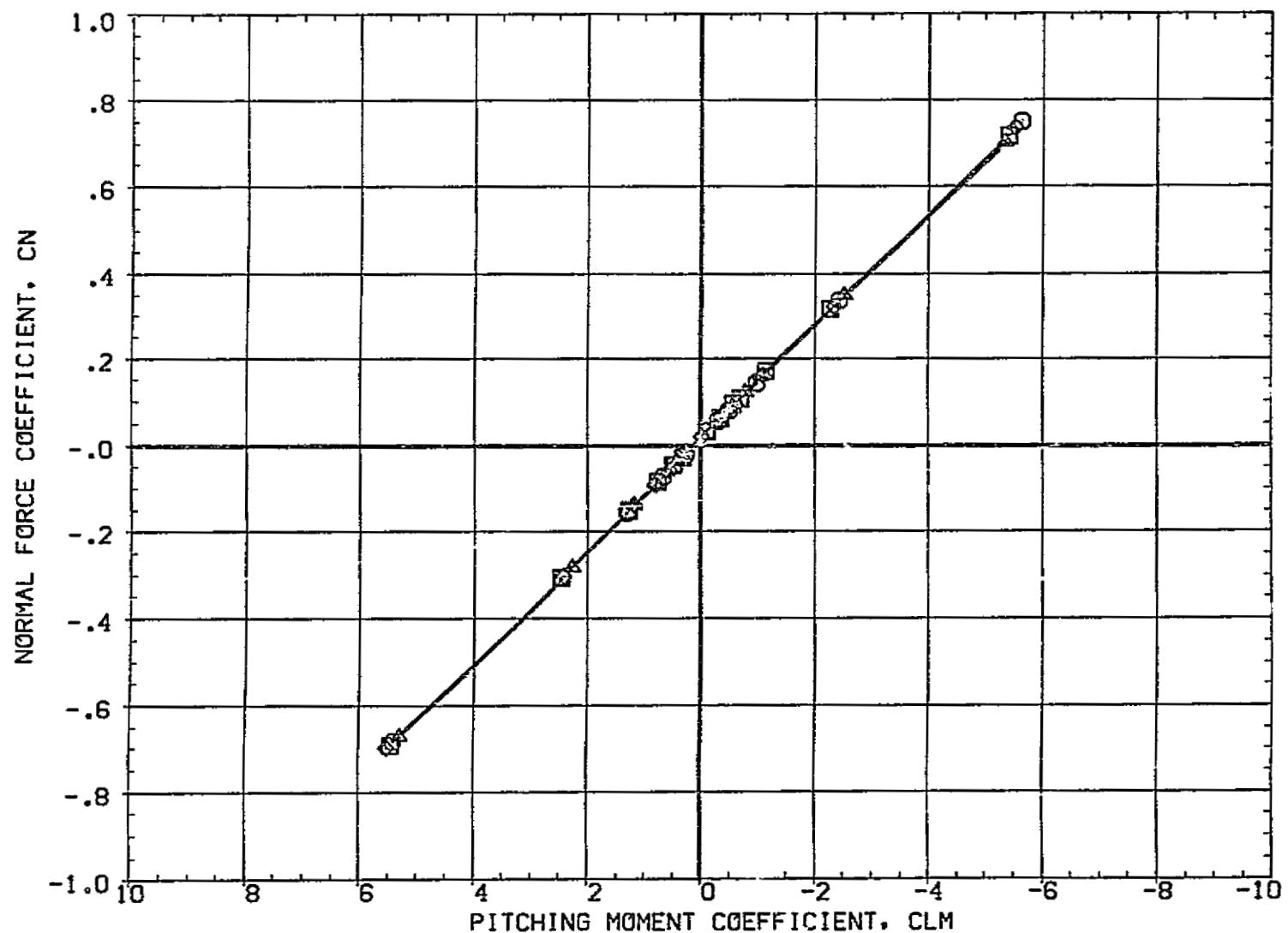
YAW MODULATION EFFECT

(A)MACH = 0.64

PAGE 147

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) □ DCAT ARC 603/604 B2 F4 C  
 (BX1009) X DCAT ARC 603/604 B2 F4 C  
 (BX1012) D DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	.000	40.000	86.000	LREF	.3750 FT.
.000	.000	60.000	86.000	BREF	.3750 FT.
.000	.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



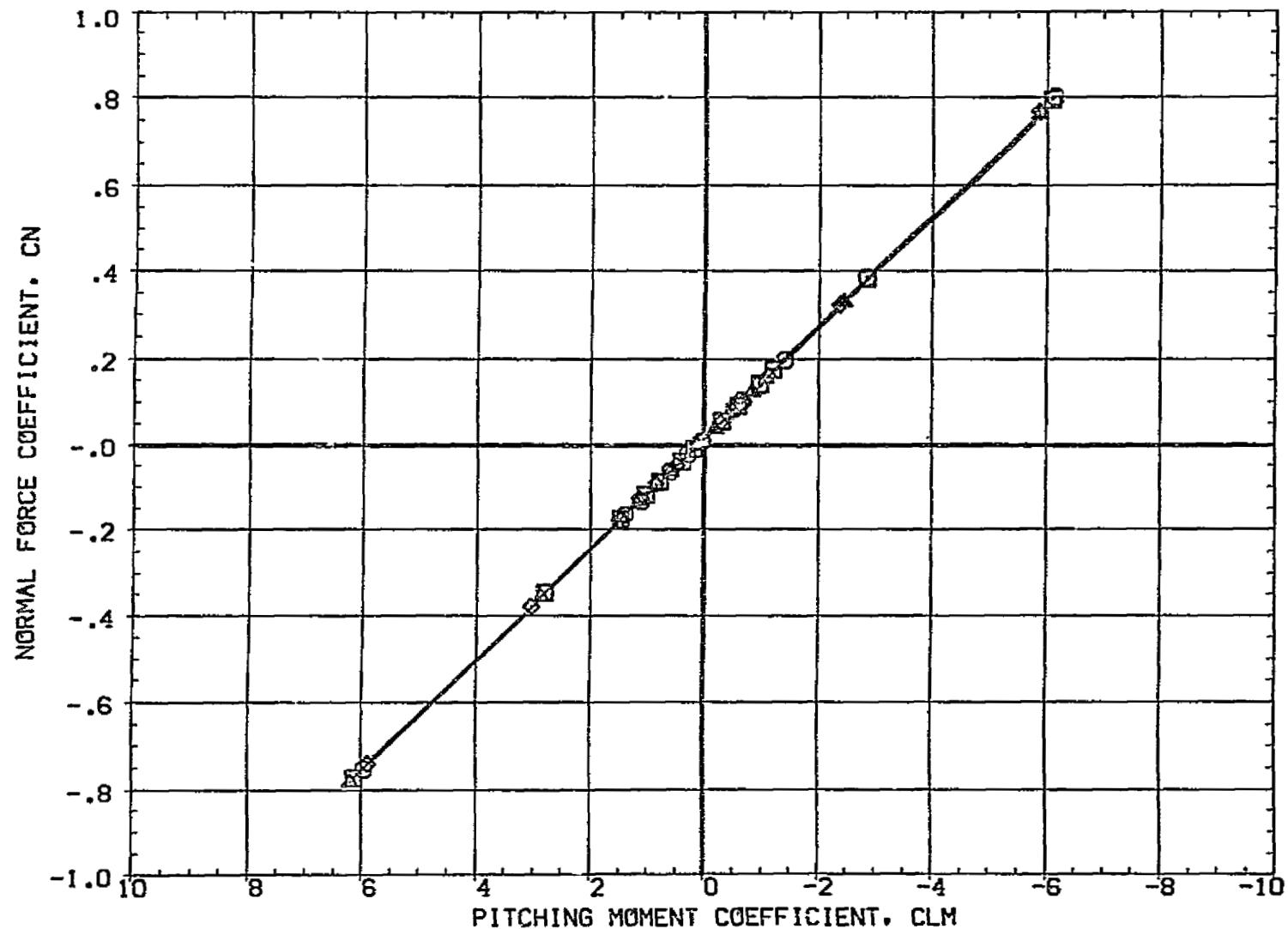
### YAW MODULATION EFFECT

COMPUTER 2.00

PAGE 148

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
(BX1002)	OCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000	SREF	.1100 SQ.FT.
(BX1005)	CCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000	LREF	.3750 FT.
(BX1009)	OCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000	BREF	.3750 FT.
(BX1012)	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000	XMRP	.0000 FT.
						YMRP	.0000 FT.
						ZMRP	.0000 FT.
						SCALE	125.0000 PERCENT

>EAT



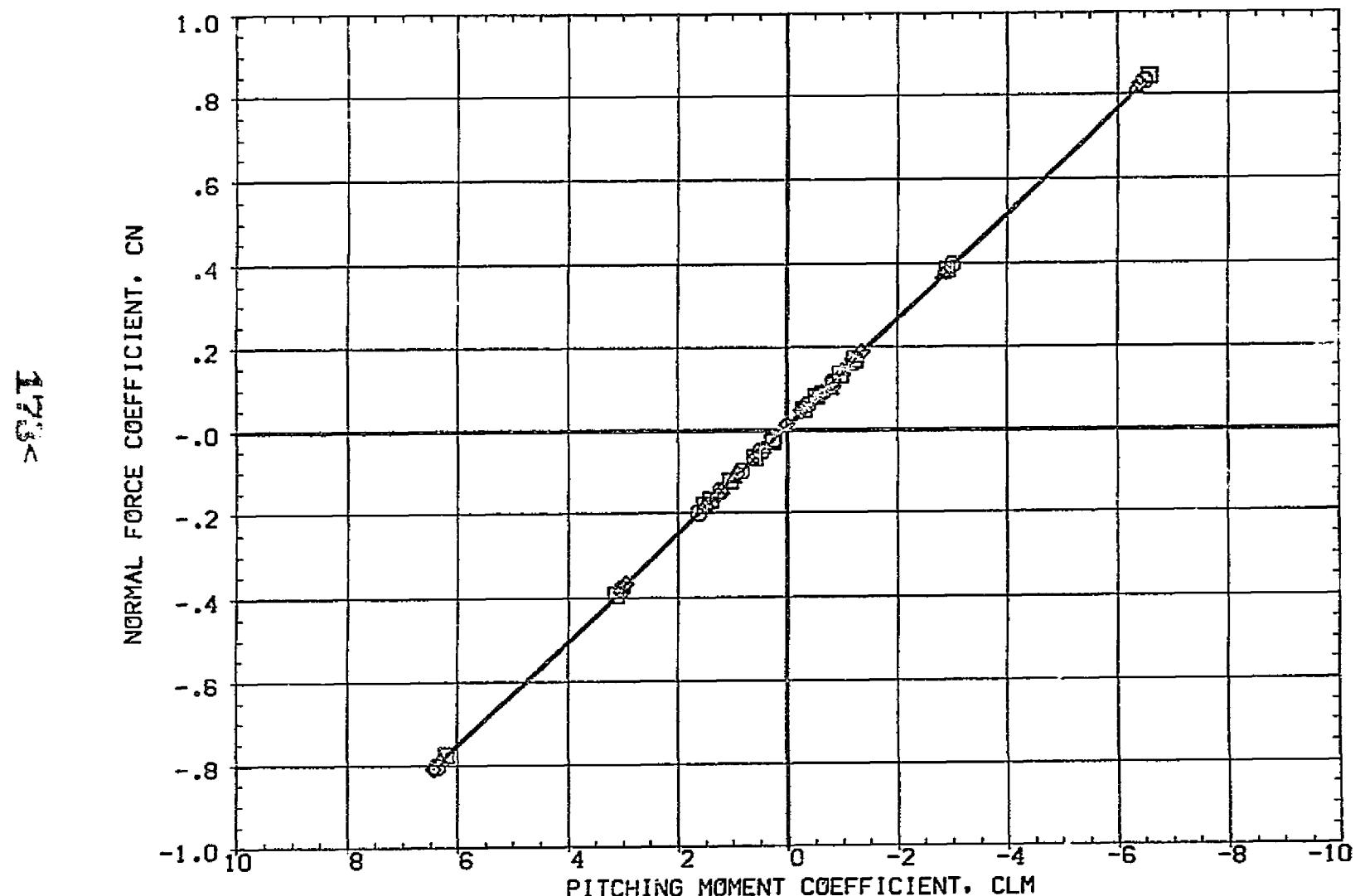
YAW MODULATION EFFECT

(C)MACH = 0.95

PAGE 149

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1009) X DCAT ARC 603/604 B2 F4 C  
 (BX1012) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SO.FT.
.000	.000	40.000	86.000	LREF	.3750 FT.
.000	.000	60.000	86.000	BREF	.3750 FT.
.000	.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

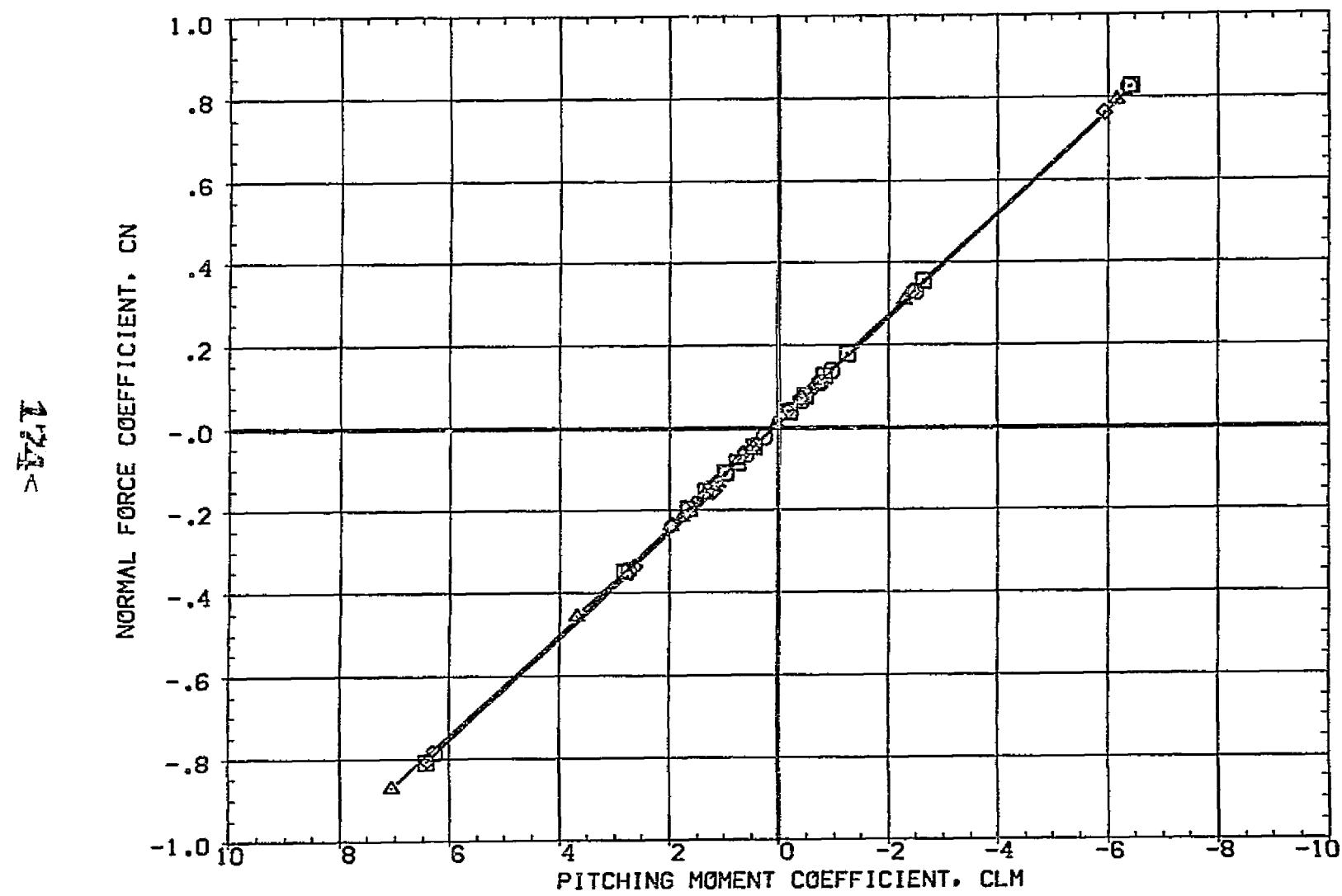


>S< T  
 NORMAL FORCE COEFFICIENT, CN  
 PITCHING MOMENT COEFFICIENT, CLM  
 YAW MODULATION EFFECT  
 (D)MACH = 1.00

PAGE 150

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1009) X DCAT ARC 603/604 B2 F4 C  
 (BX1012) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	.000	66.000	SREF .1100 SQ.FT.
.000	.000	40.000	85.000	LREF .3750 FT.
.000	.000	60.000	85.000	BREF .3750 FT.
.000	.000	100.000	85.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCNT

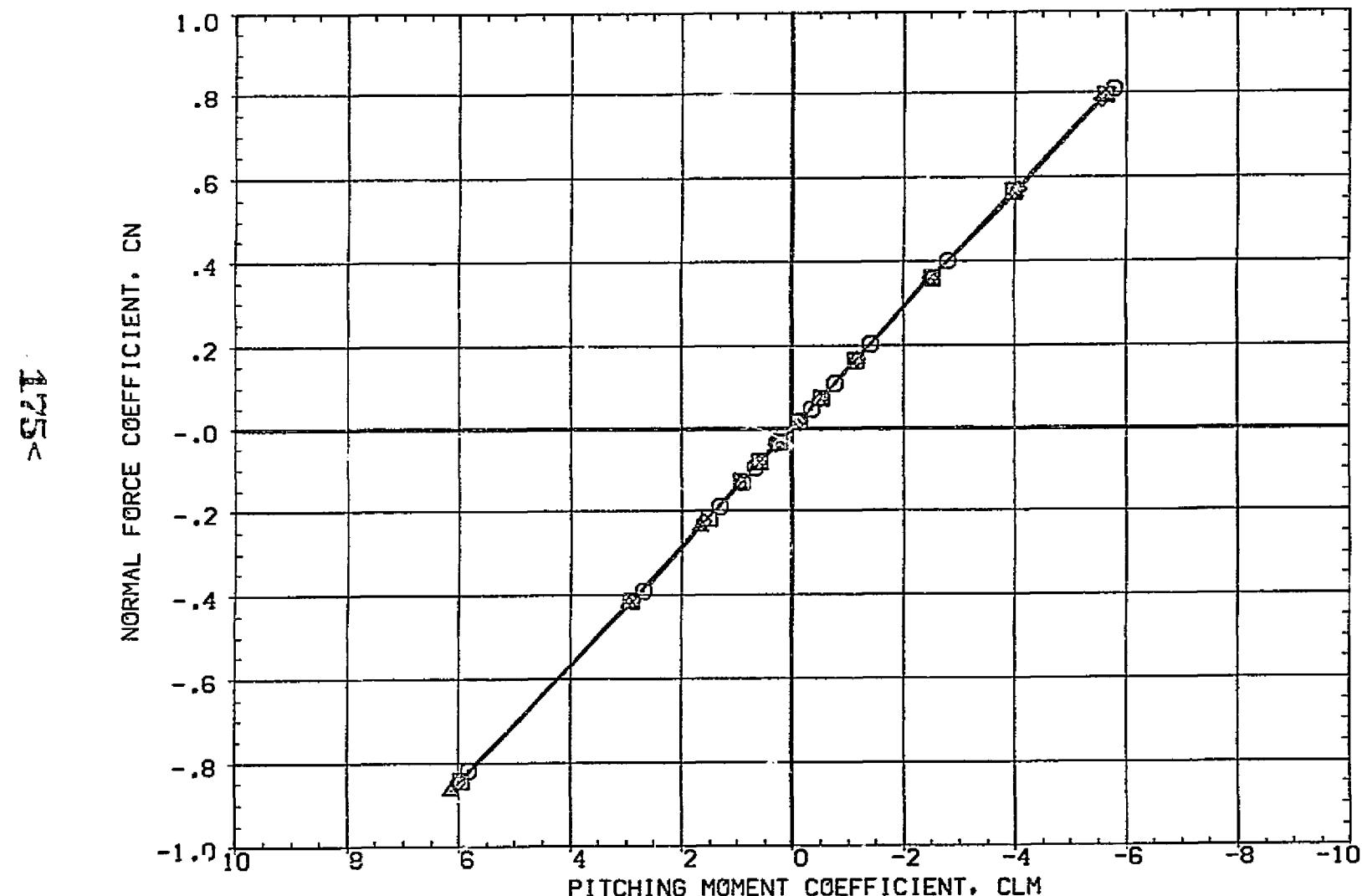


YAW MODULATION EFFECT

(E)MACH = 1.10

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
(BX1002)	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000	SREF .1100 SB.FT.
(BX1006)	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000	LREF .3750 FT.
(BX1009)	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000	BREF .3750 FT.
(BX1012)	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000	XMRP .0000 FT.
					ZMRP .0000 FT.	
					SCALE .0000 FT.	
					125.0000 PERCNT	



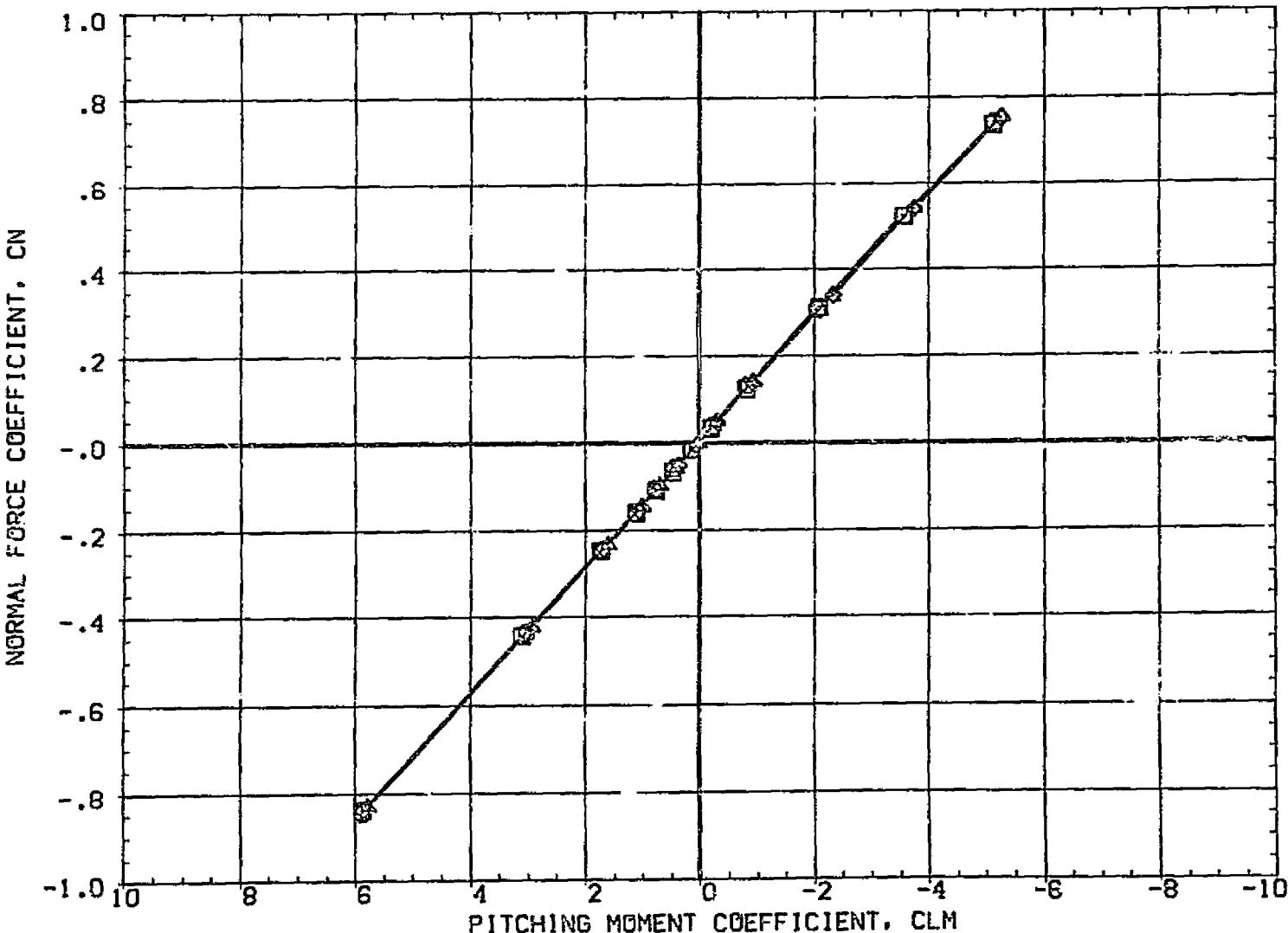
YAW MODULATION EFFECT

(FMACH = 1.56)

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1009) X DCAT ARC 603/604 B2 F4 C  
 (BX1012) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	M-MOD	PQJ/PF	REFERENCE	INFORMATION
.000	.000	.000	66.000	SREF	.1100 SQ.FT.
.000	.000	40.000	66.000	LREF	.3750 FT.
.000	.000	60.000	66.000	BREF	.3750 FT.
.000	.000	100.000	66.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



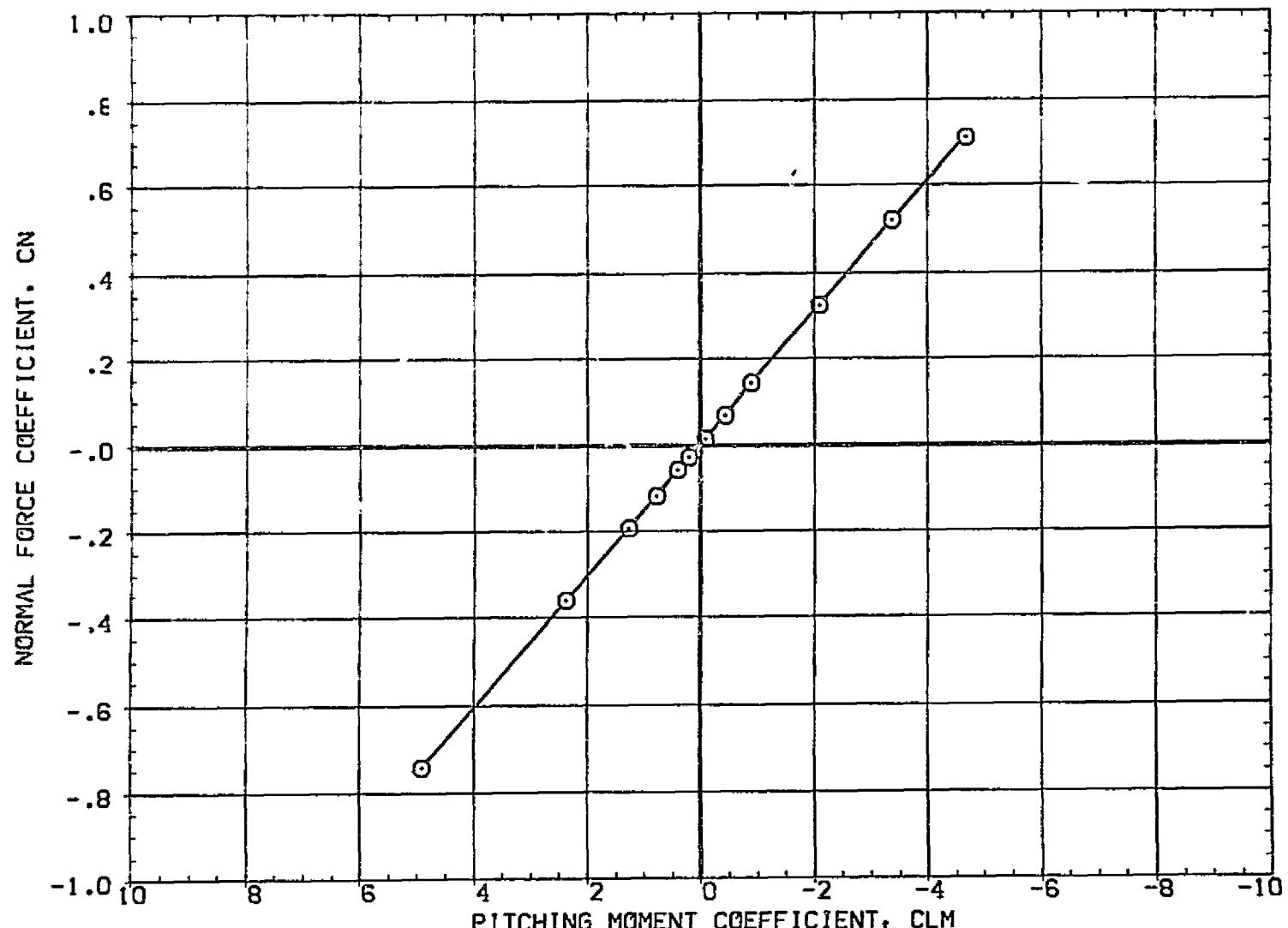
YAW MODULATION EFFECT

(G)MACH = 1.80

PAGE 153

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) □ DATA ARC 603/604 B2 F4 C  
 (BX1006) □ DATA NOT AVAILABLE  
 (BX1009) □ DATA NOT AVAILABLE  
 (BX1C12) △ DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	PQJ/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	.000	40.000	86.000	LREF	.3750 FT.
.000	.000	60.000	86.000	RREF	.3750 FT.
.000	.000	100.000	86.000	XRP	.0000 FT.
				YRP	.0000 FT.
				ZRP	.0000 FT.
				SCALE	125.0000 PERCENT



TAB MODULATION EFFECT

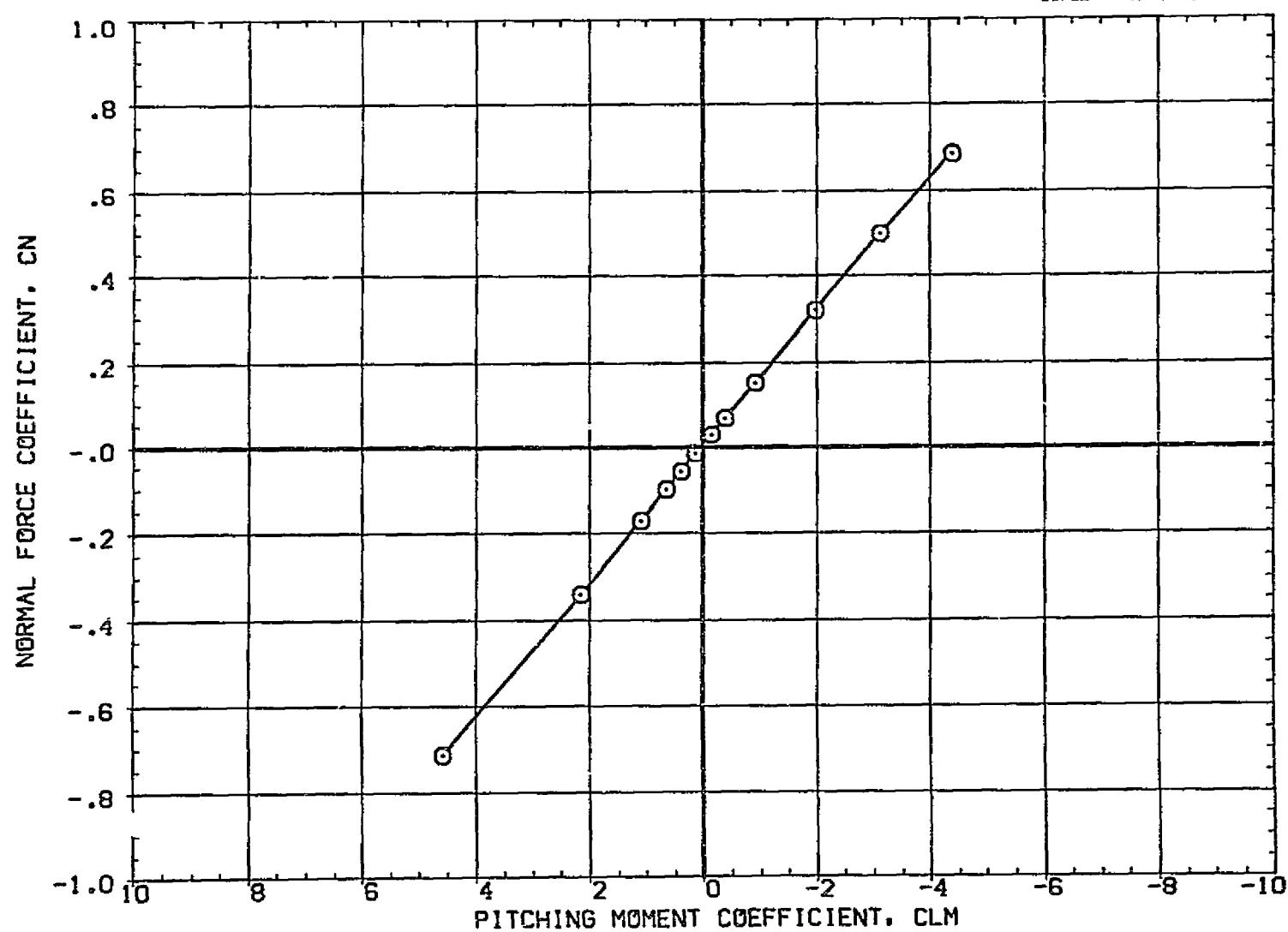
(H)MACH = 2.20

PAGE 154

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) D CAT ARC 603/604 B2 F4 C  
 (BX1006) DATA NOT AVAILABLE  
 (BX1009) DATA NOT AVAILABLE  
 (BX1012) DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	PQJ/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 SO.FT.
.000	.000	40.000	86.000	LREF .3750 FT.
.000	.000	60.000	86.000	BREF .3750 FT.
.000	.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCNT

>84T



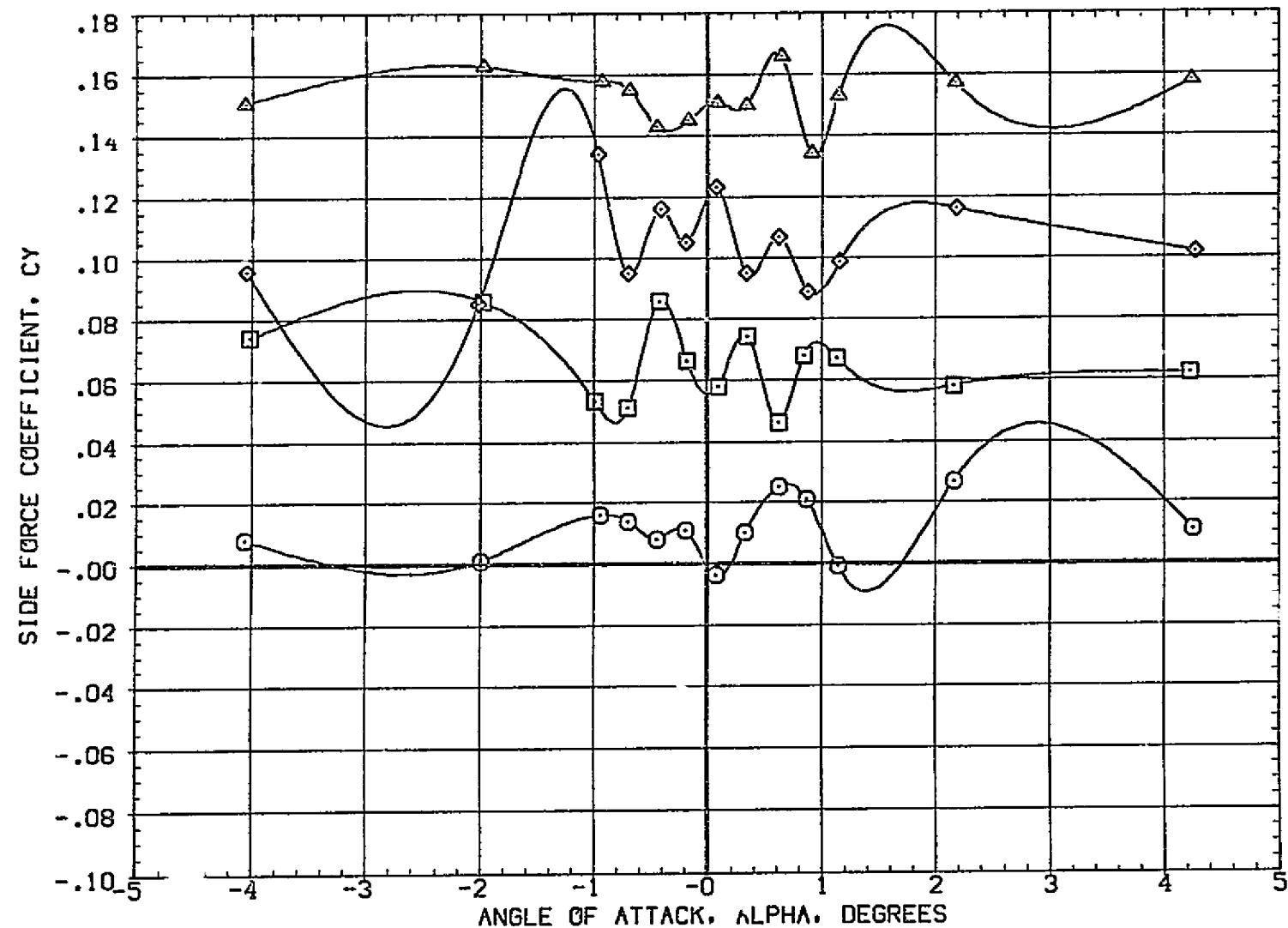
YAW MODULATION EFFECT

(CDMACH = 2.50

PAGE 155

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) ODCAT ARL 603/604 B2 F4 C  
 (BX1006) ODCAT ARC 603/604 B2 F4 C  
 (BX1009) DDCAT ARC 603/604 B2 F4 C  
 (BX1012) XDCAT ARC 603/604 B2 F4 C

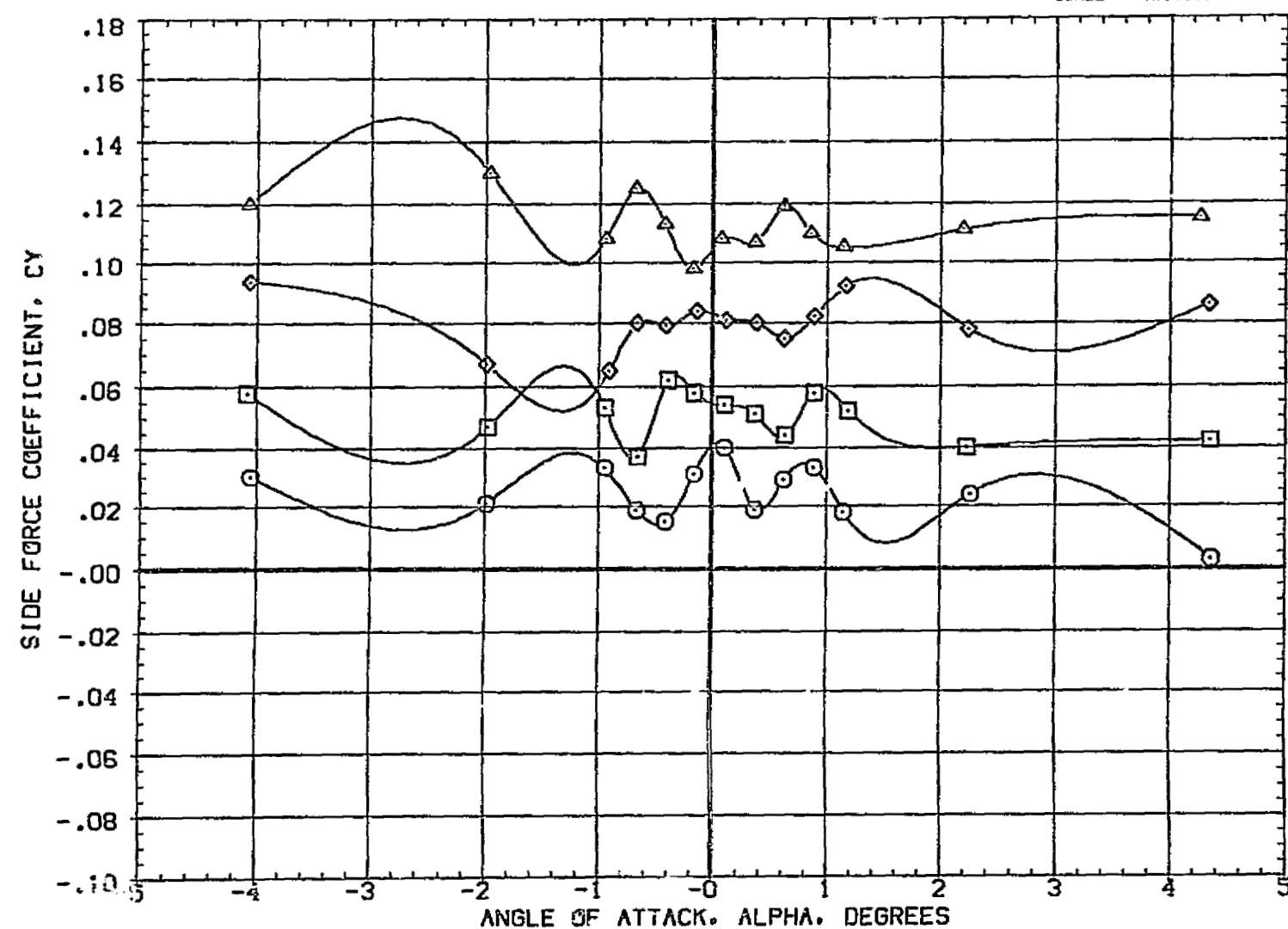
BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 SO.FT.
.000	.000	40.000	86.000	LREF .3750 FT.
.000	.000	60.000	86.000	BREF .3750 FT.
.000	.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCNT



DATA SET SYMSOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) O DCAT ARC 603/604 B2 F4 C  
 (BX1009) X DCAT ARC 603/604 B2 F4 C  
 (BX1012) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	.000	40.000	86.000	LREF	.3750 FT.
.000	.000	60.000	86.000	BREF	.3750 FT.
.000	.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

>CG8 T



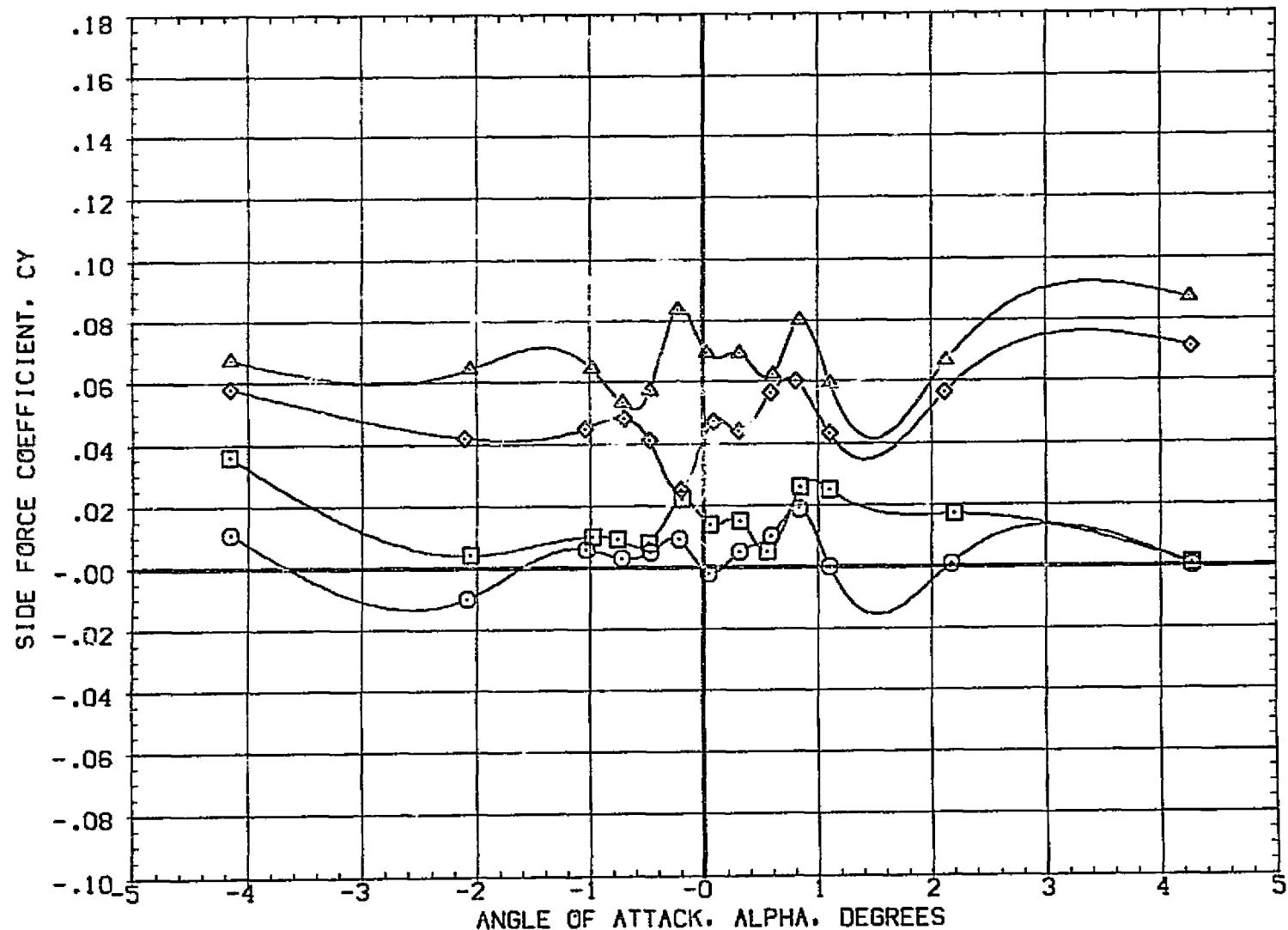
### YAW MODULATION EFFECT

(B)MACH = 0.80

PAGE 157

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) D CAT ARC 603/604 B2 F4 C  
 (BX1006) D CAT ARC 603/604 B2 F4 C  
 (BX1009) D CAT ARC 603/604 B2 F4 C  
 (BX1012) D CAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	40.000	86.000	SREF	.1100 SQ.FT.
.000	.000	60.000	86.000	LREF	.3750 FT.
.000	.000	100.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



YAW MODULATION EFFECT

(C)MACH = 0.95

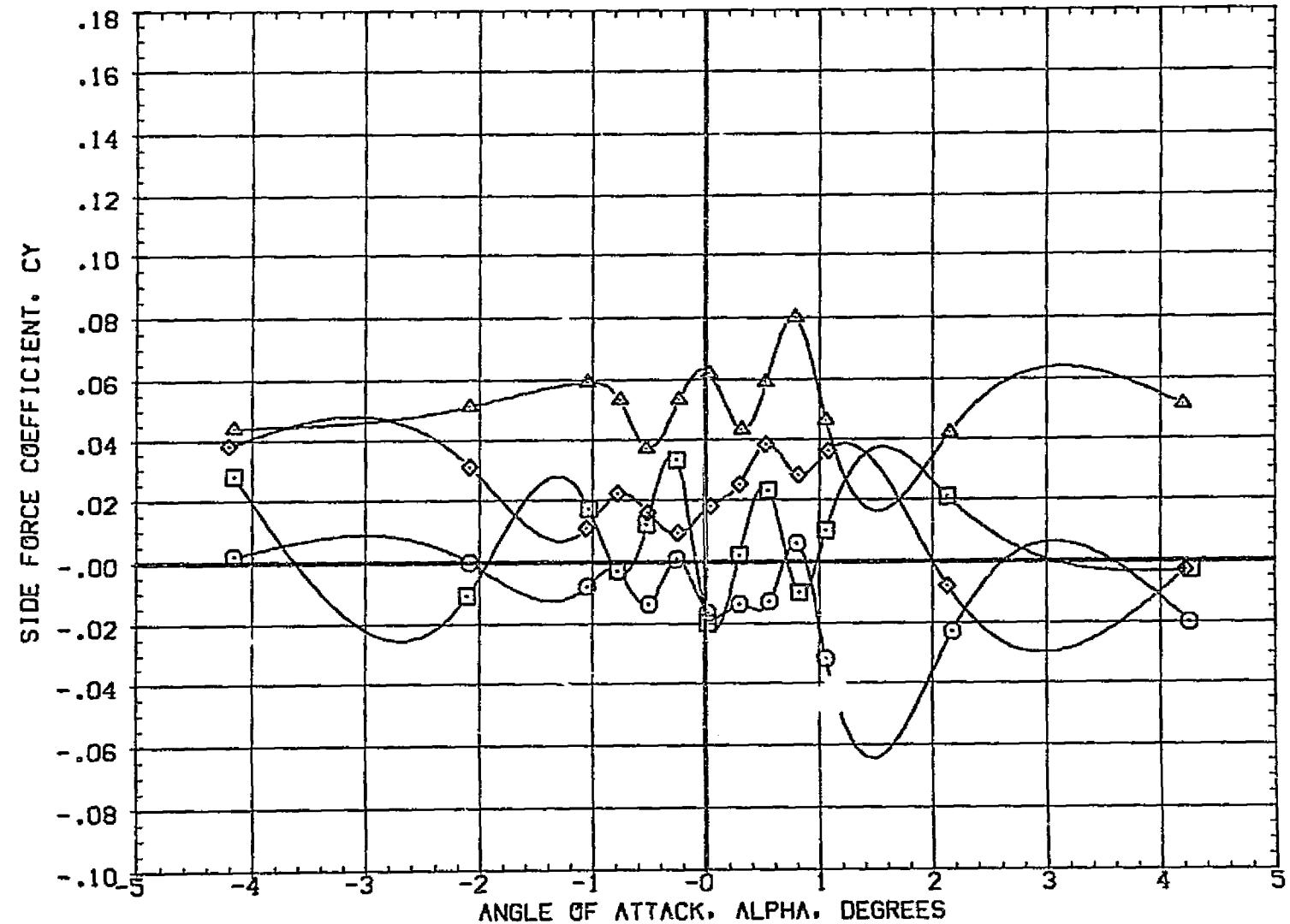
PAGE 158

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BX1002)	○	DCAT ARC 603/604	B2 F4 C
(BX1006)	□	DCAT ARC 603/604	B2 F4 C
(BX1009)	◇	DCAT ARC 603/604	B2 F4 C
(BX1012)	△	DCAT ARC 603/604	B2 F4 C

BETA P-MOD Y-MOD POJ/PF REFERENCE INFORMATION  
.000 .000 .000 86.000 SREF .1100 SD.FT.  
.000 .000 40.000 86.000 LREF .3750 FT.  
.000 .000 60.000 86.000 BREF .3750 FT.  
.000 .000 100.000 86.000 XMRP .0000 FT.  
.000 .000 0.000 0.000 YMNP .0000 FT.  
.000 .000 0.000 0.000 ZMRP .0000 FT.  
SCALE 125.0000 PERCNT

NOTE



YAW MODULATION EFFECT

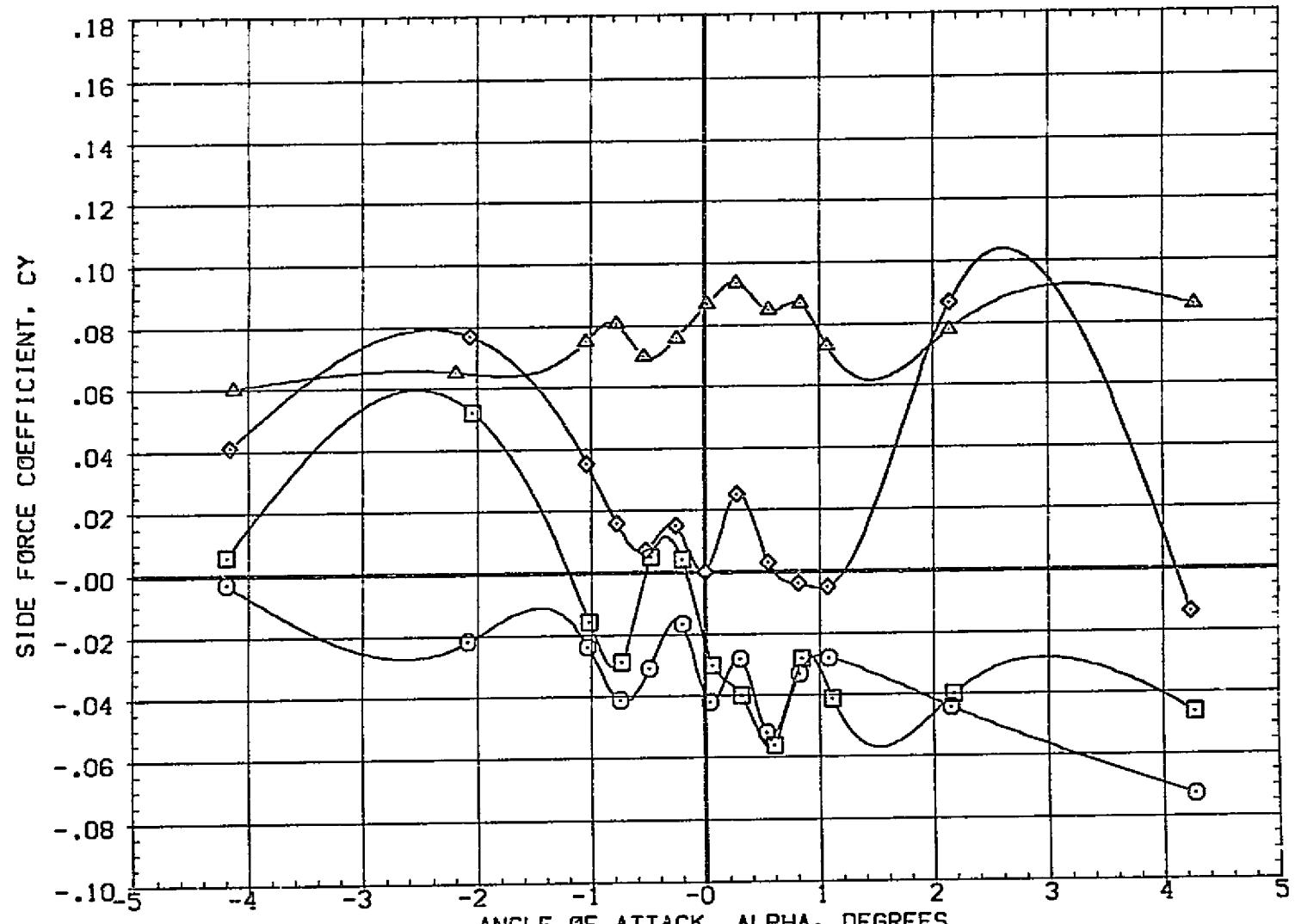
(D)MACH = 1.00

PAGE 159

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) D CAT ARC 603/604 82 F4 C  
 (BX1006) D CAT ARC 603/604 82 F4 C  
 (BX1009) D CAT ARC 603/604 82 F4 C  
 (BX1012) D CAT ARC 603/604 82 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	.000	40.000	86.000	LREF	.3750 FT.
.000	.000	60.000	86.000	BREF	.3750 FT.
.000	.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

100%



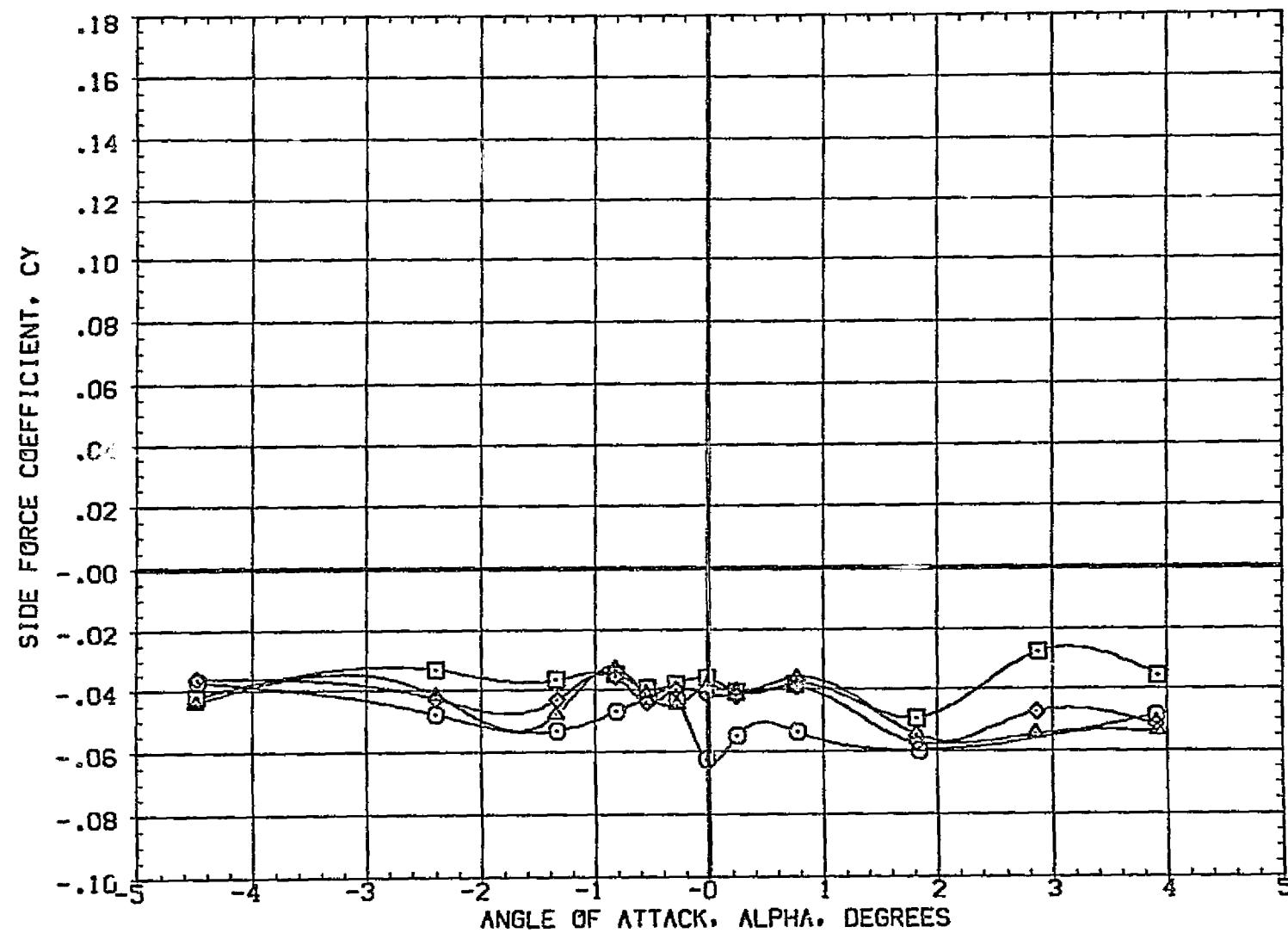
YAW MODULATION EFFECT

(E)MACH = 1.10

PAGE 160

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002)  DCAT ARC 603/604 B2 F4 C  
 (BX1006)  DCAT ARC 603/604 B2 F4 C  
 (BX1009)  DCAT ARC 603/604 B2 F4 C  
 (BX1012)  DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 SQ.FT.
.000	.000	40.000	86.000	LREF .3750 FT.
.000	.000	60.000	86.000	BREF .3750 FT.
.000	.000	100.000	66.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



YAW MODULATION EFFECT

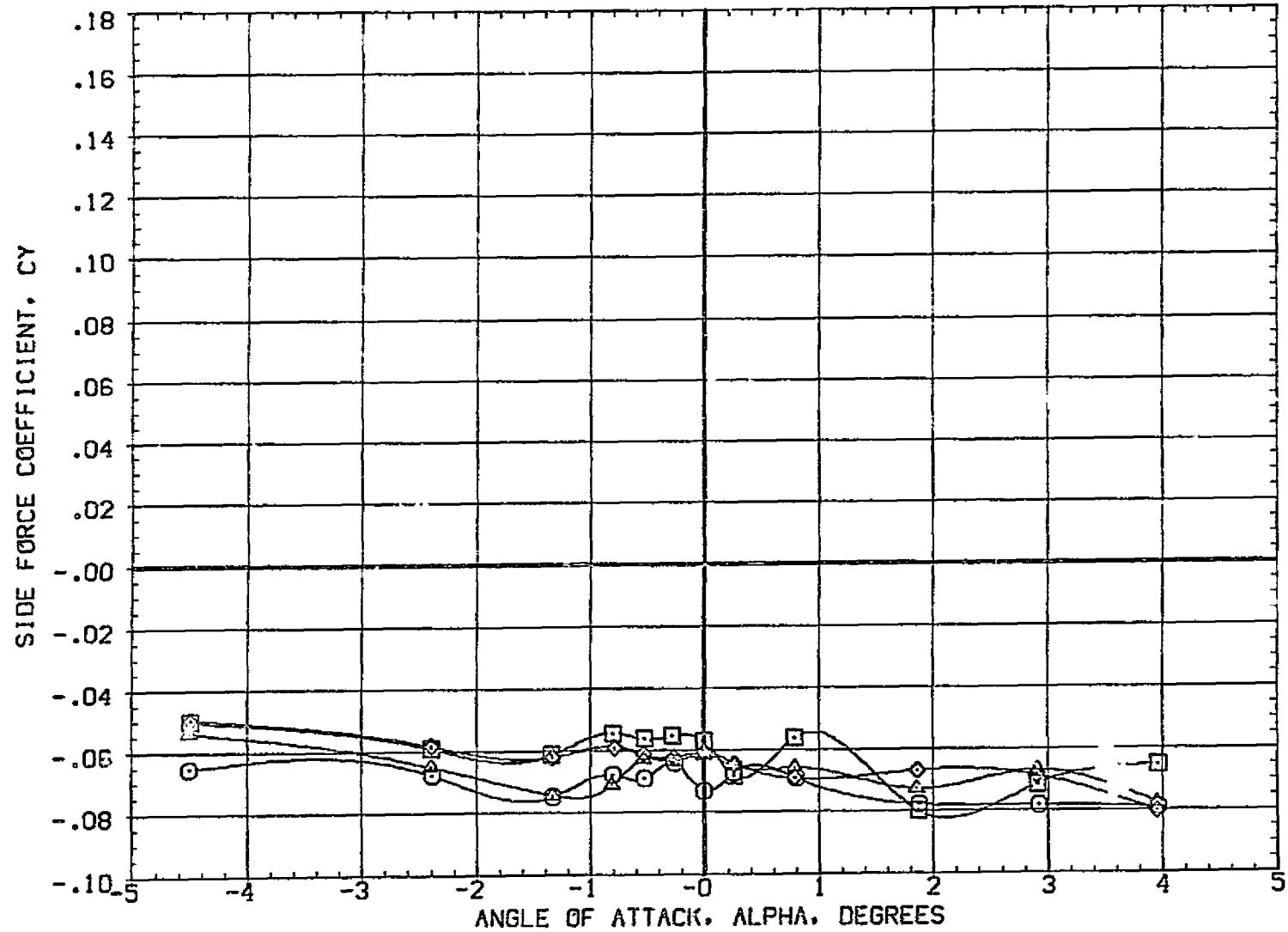
(F)MACH = 1.56

PAGE 161

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1005) □ DCAT ARC 603/604 B2 F4 C  
 (BX1009) X DCAT ARC 603/604 B2 F4 C  
 (BX1012) ✕ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	.000	40.000	86.000	LREF	.3750 FT.
.000	.000	60.000	86.000	BREF	.3750 FT.
.000	.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

>CST



YAW MODULATION EFFECT

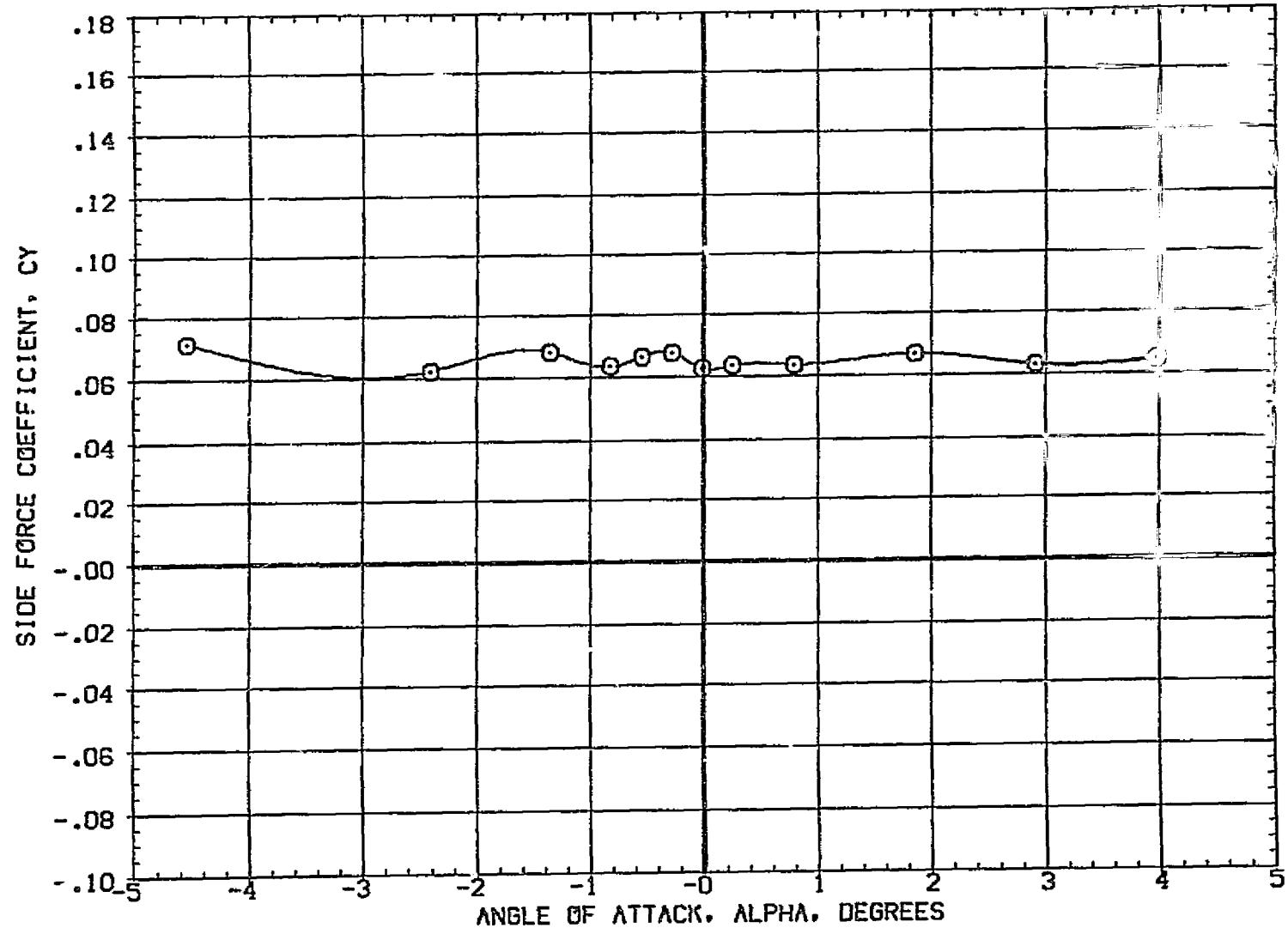
MACH = 1.80

PAGE 162

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1002) O DCAT ARC 603/604 B2 F4 C  
 (BX1006) X DATA NOT AVAILABLE  
 (BX1009) X DATA NOT AVAILABLE  
 (BX1012) X DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	POW/Y	REFERENCE INFORMATION
.000	.000	.000	53,000	.1100 SQ.FT.
.000	.000	40,000	53,000	.3250 FT.
.000	.000	60,000	53,000	.3750 FT.
.000	.000	100,000	53,000	.0000 FT.
			XREF	1MSP .0000 FT.
			REFP	.0000 FT.
			REFE	125.0000 PERCENT

> SST



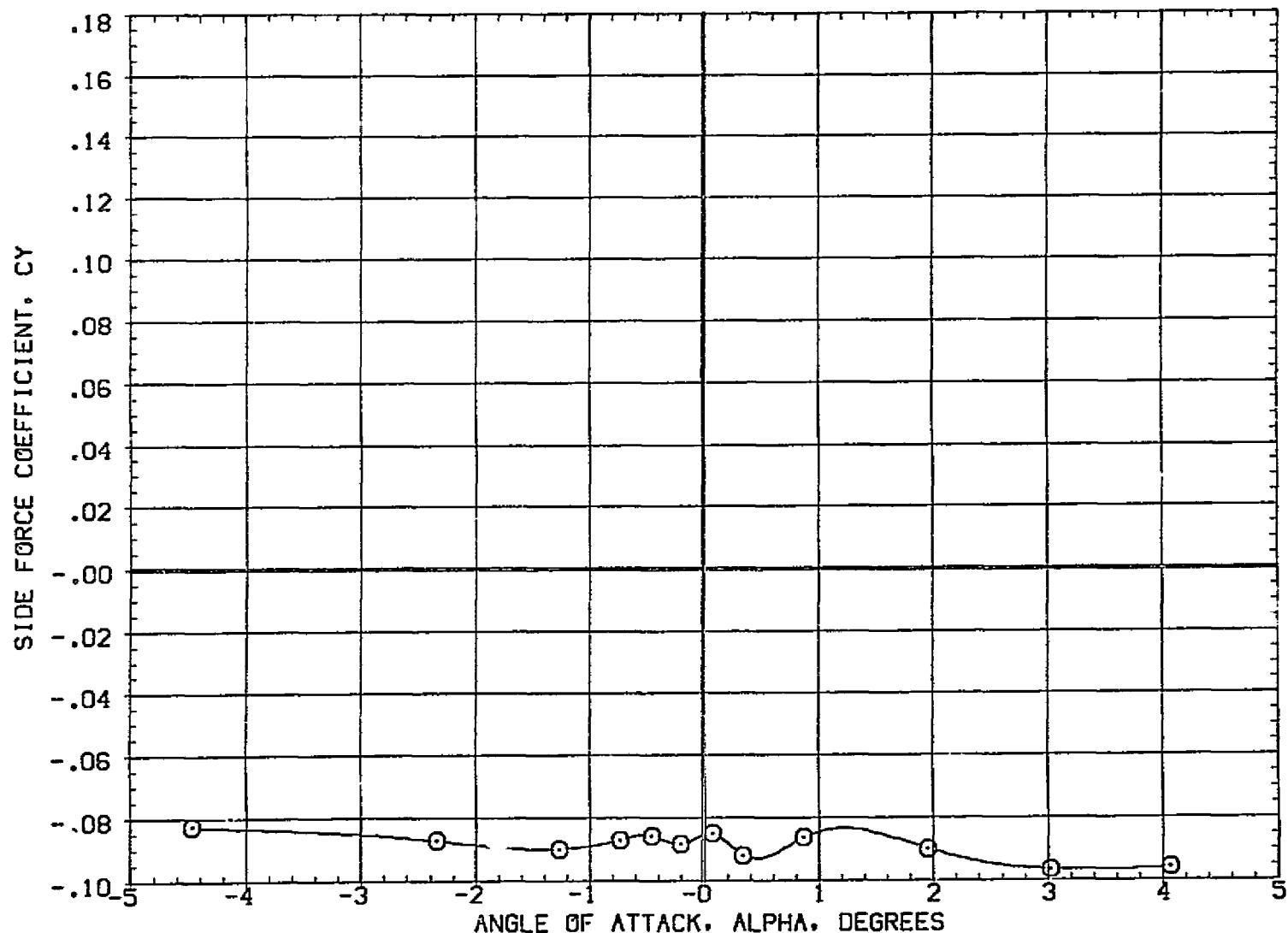
YAW MODULATION EFFECT

(CH)MACH = 2.20

PAGE 163

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
(BX1002) O DCAT ARC 603/604 82 F4 C  
(BX1006) □ DATA NOT AVAILABLE  
(BX1009) ✕ DATA NOT AVAILABLE  
(BX1012) Δ DATA NOT AVAILABLE

BETA P-MOD Y-MOD PGY/PF REFERENCE INFORMATION  
.000 .000 .000 66.000 SREF .1100 SQ.FT.  
.000 .000 40.000 66.000 LREF .3750 FT.  
.000 .000 60.000 66.000 BREF .3750 FT.  
.000 .000 100.000 66.000 XMRP .0000 FT.  
YMRP .0000 FT.  
ZMRP .0000 FT.  
SCALE 125.0000 PERCNT



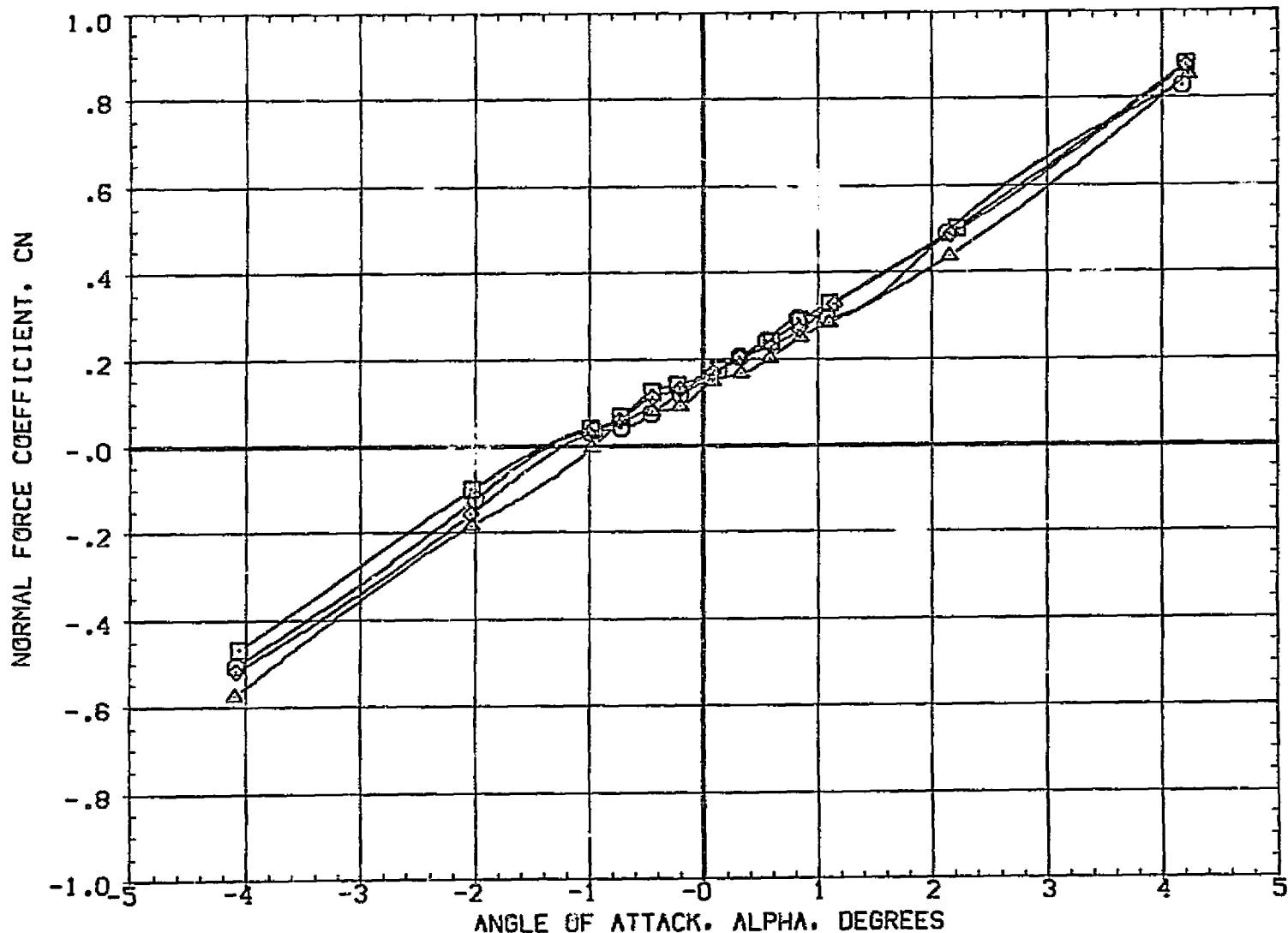
YAW MODULATION EFFECT

(CD)MACH = 2.50

PAGE 164

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) ▲ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE	INFORMATION
.000	100.000	.000	86.000	SREF	.1100 SQ.FT.
.000	100.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	50.000	85.000	BREF	.3750 FT.
.000	100.000	100.000	65.000	XRP	.0000 FT.
				YRP	.0000 FT.
				ZRP	.0000 FT.
SCALE	125.0000				PERCENT



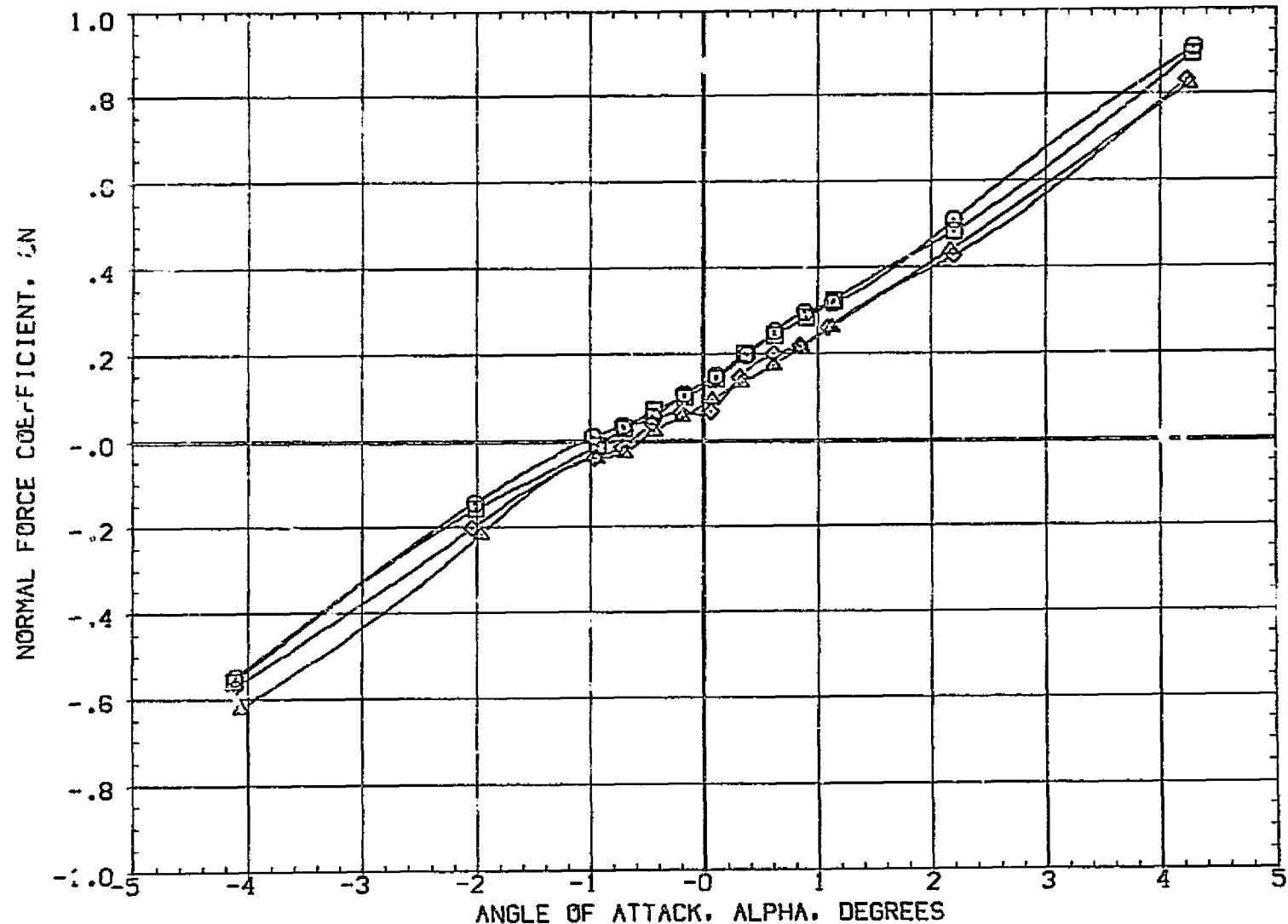
YAW MODULATION EFFECT

(A)MACH = 0.64

PAGE 165

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) Δ DCAT ARC 603/604 B2 F4 C  
 (BX1015) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0V/PF	REFERENCE	INFORMATION
.000	100.000	.000	88.000	SREF	.1100 SQ.FT.
.000	100.000	40.000	88.000	LREF	.3750 FT.
.000	100.000	60.000	88.000	SREF	.3750 FT.
.000	100.000	100.000	88.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



>681

YAW MODULATION EFFECT

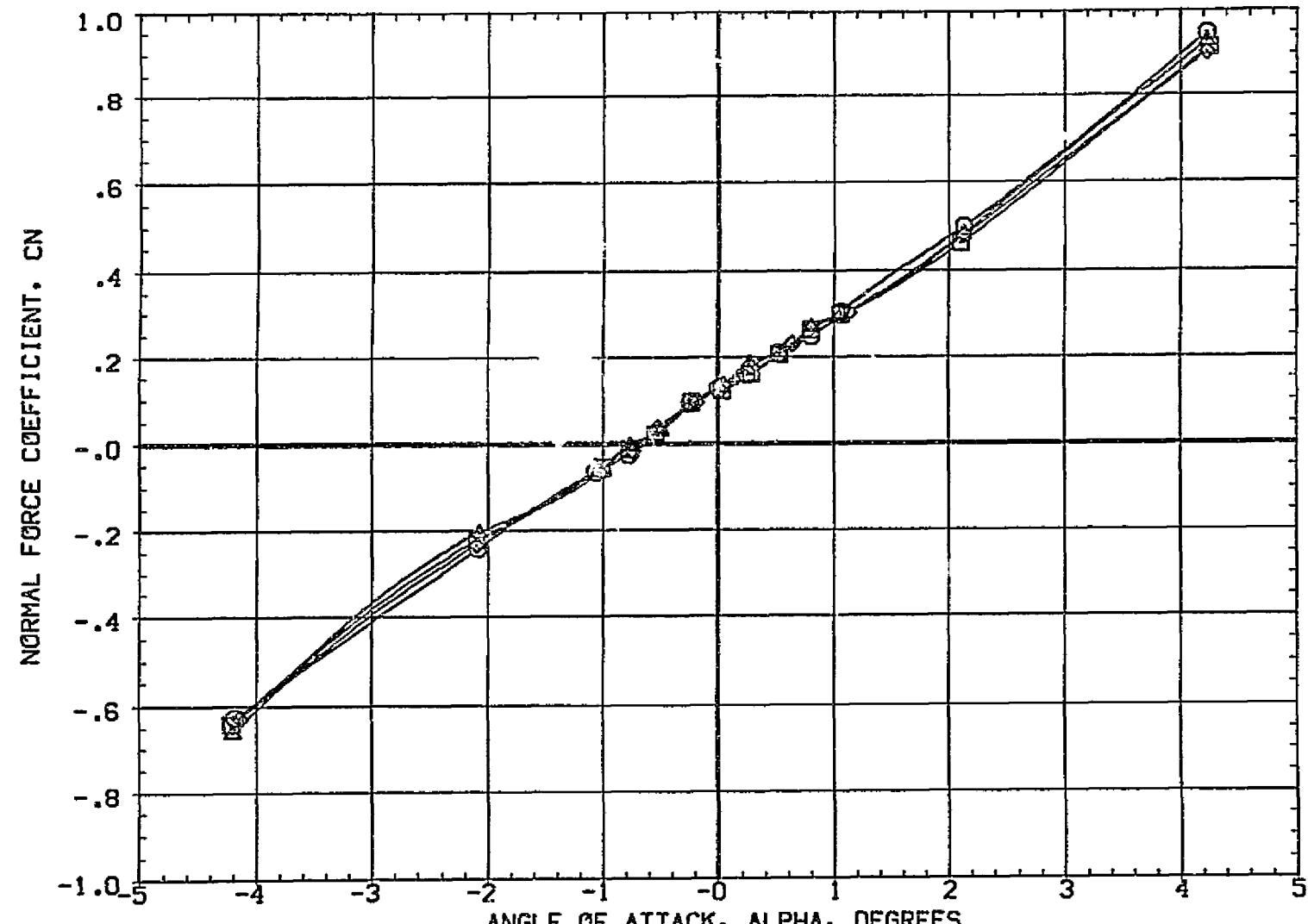
(B)MACH = 0.80

PAGE 166

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◊ DCAT ARC 603/604 B2 F4 C  
 (BX1015) Δ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	100.000	00.000	86.000	SREF	.1100 SQ.FT.
.000	100.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	X0RP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT

>067

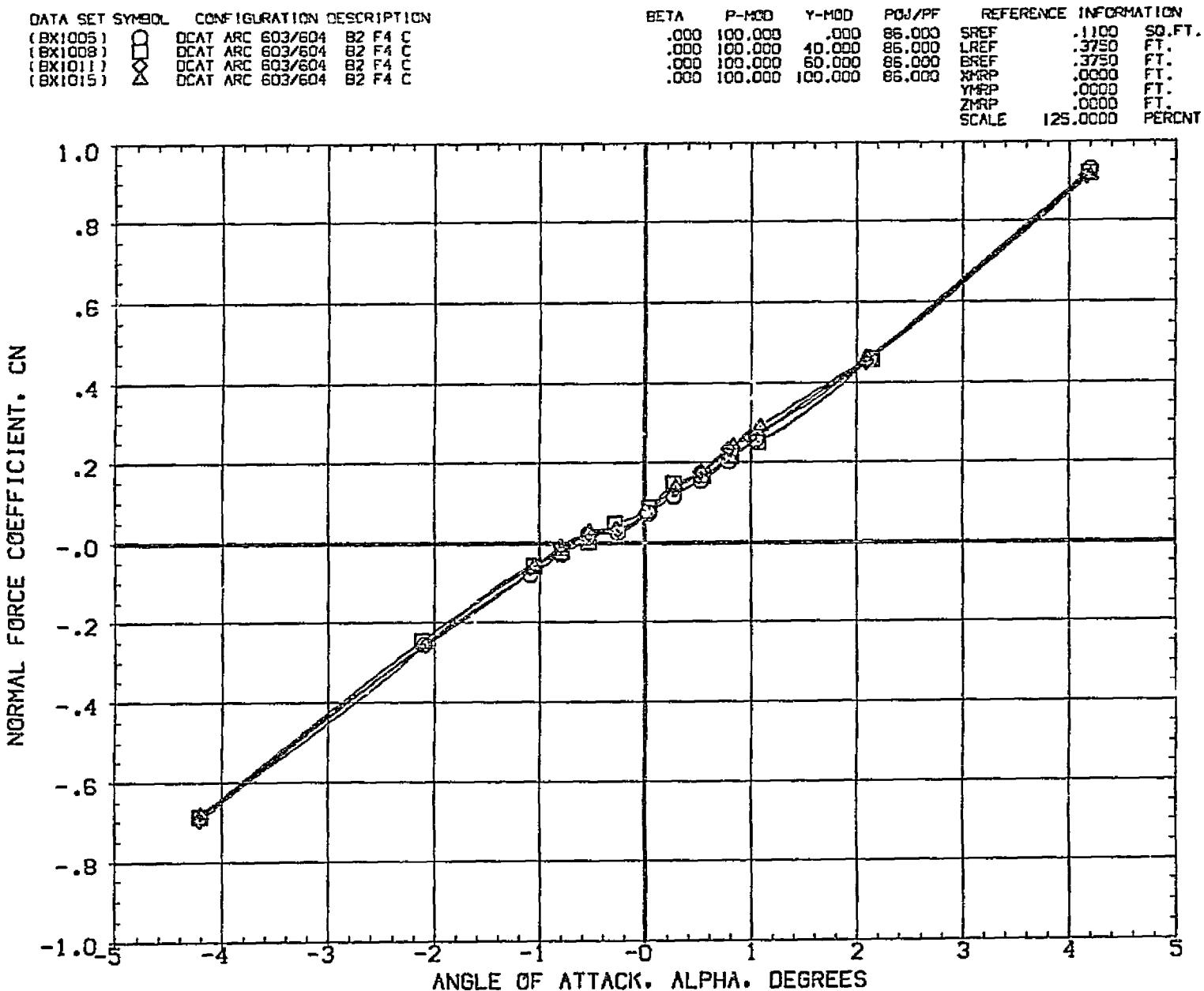


YAW MODULATION EFFECT

(C)MACH = 0.95

PAGE 167

> TEST



YAW MODULATION EFFECT

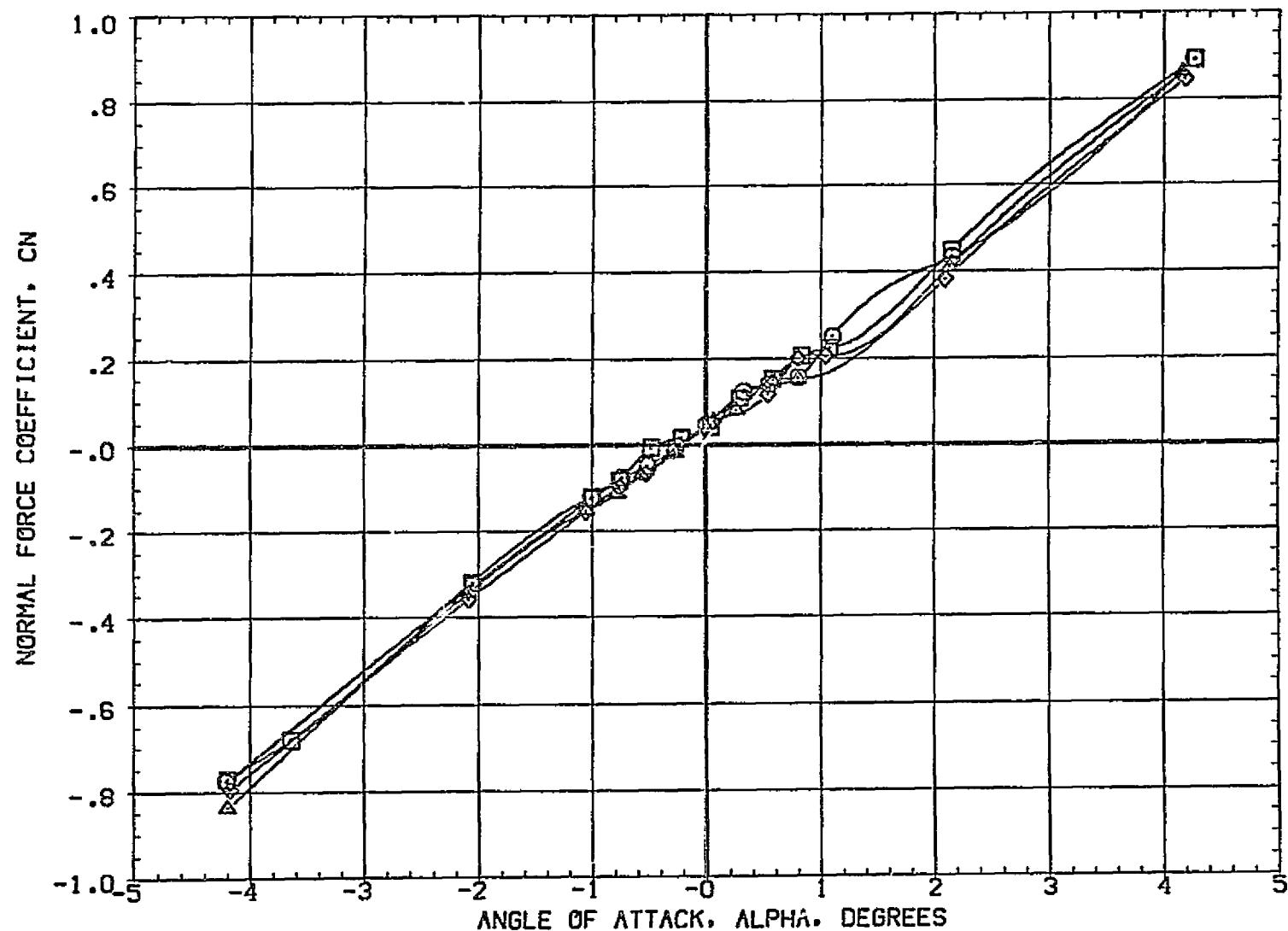
SPINACH - 1.00

PAGE 10

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1009) X DCAT ARC 603/604 B2 F4 C  
 (BX1011)  $\times$  DCAT ARC 603/604 B2 F4 C  
 (BX1015)  $\Delta$  DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	100.000	.000	86.000	SREF	.1100 SD.FT.
.000	100.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.2000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

>26T

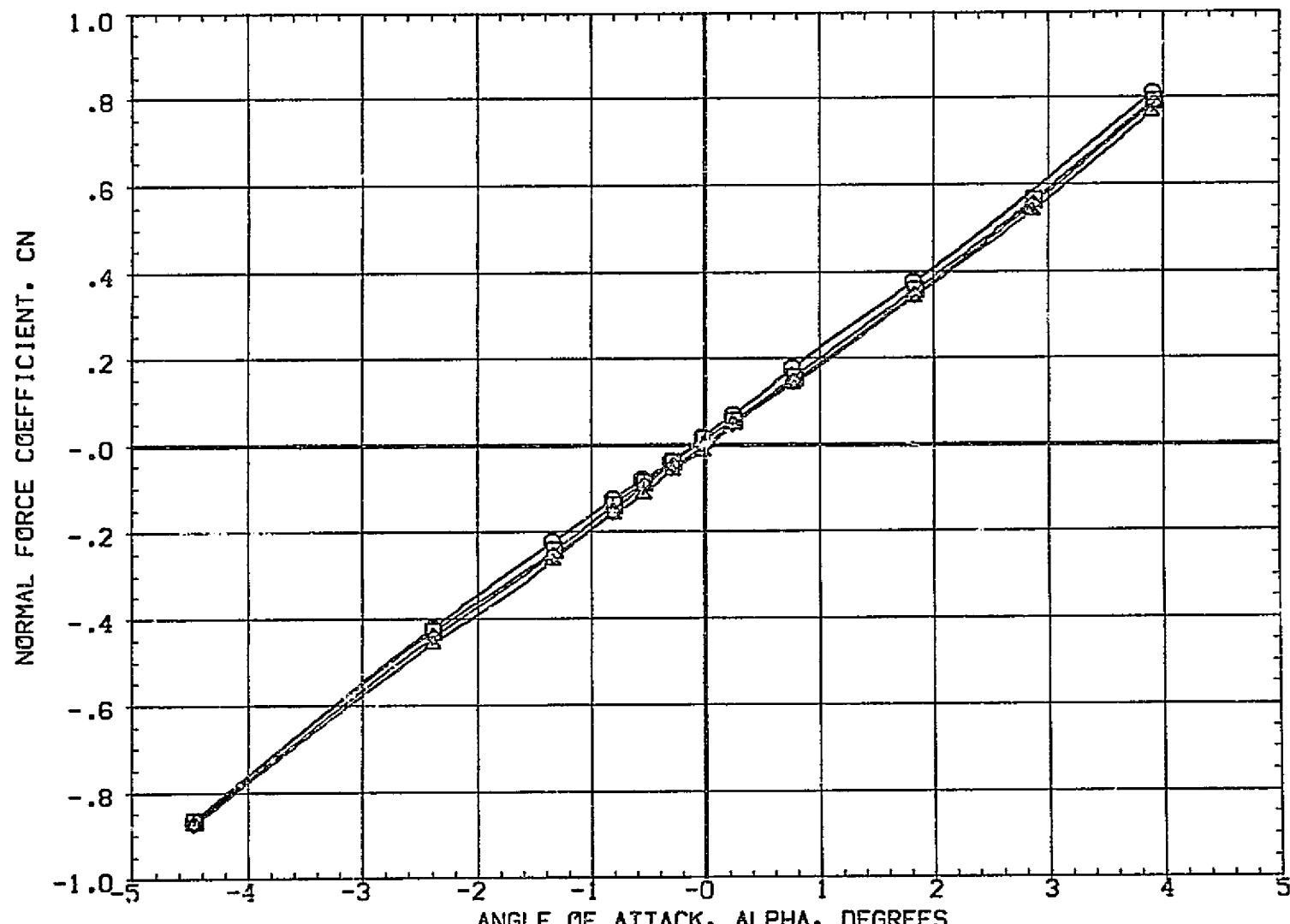


YAW MODULATION EFFECT  
 $(C_D)_{MACH} = 1.10$

PAGE 169

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) DCAT ARC 603/604 B2 F4 C  
 (BX1008) DCAT ARC 603/604 B2 F4 C  
 (BX1011) DCAT ARC 603/604 B2 F4 C  
 (BX1015) DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0V/PF	REFERENCE	INFORMATION
.000	100.000	.000	86.000	SREF	.1100 SQ.FT.
.000	100.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
SCALE	125.0000				PERCNT



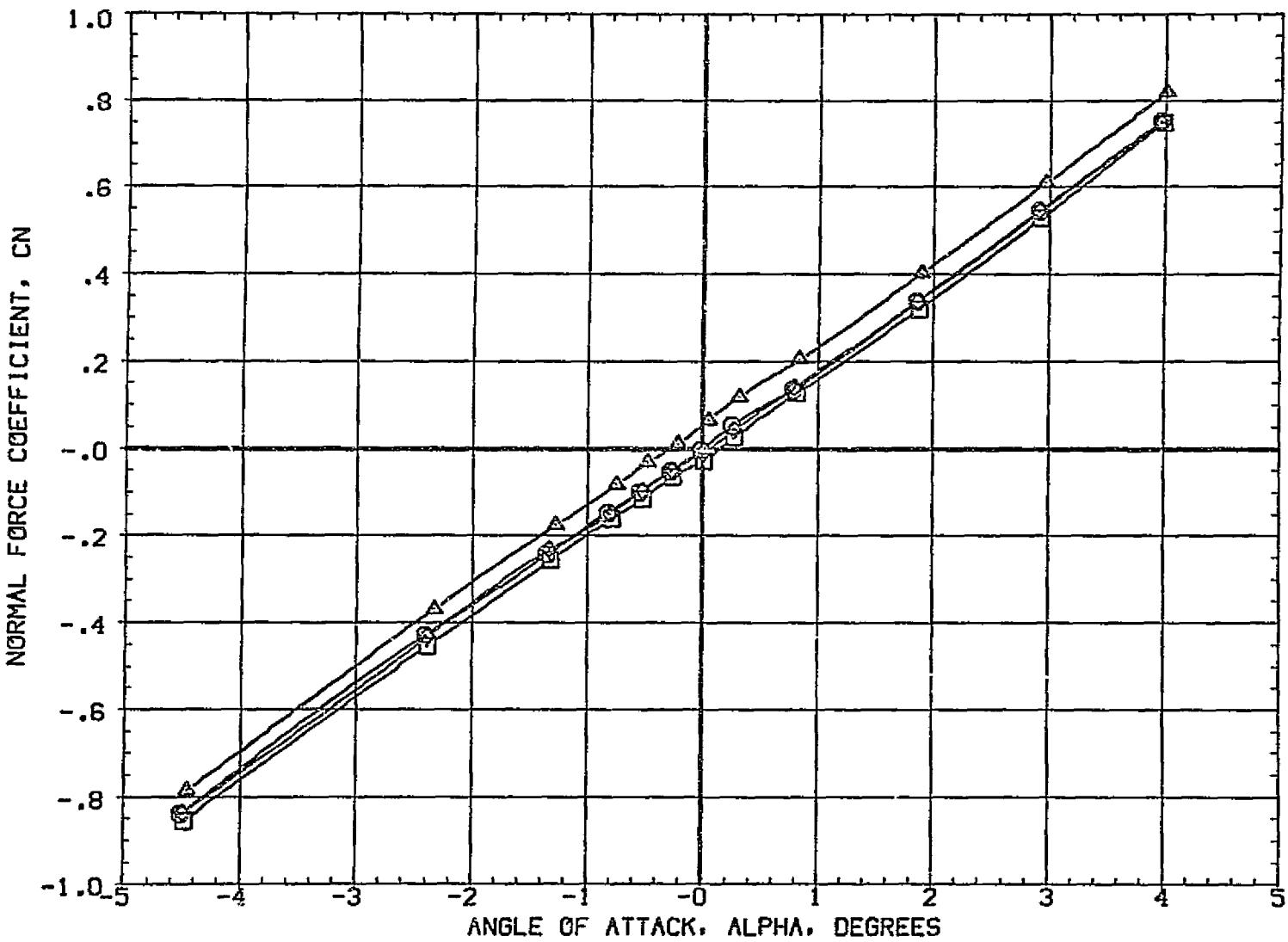
YAW MODULATION EFFECT

(F)MACH = 1.56

PAGE 170

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF	REFERENCE INFORMATION
.000	100.000	.000	86.000	SREF .1100 SQ.FT.
.000	100.000	40.000	86.000	LREF .3750 FT.
.000	100.000	80.000	86.000	BREF .3750 FT.
.000	100.000	100.000	86.000	XHYP .0000 FT.
				YHYP .0000 FT.
				ZHYP .0000 FT.
				SCALE 125.0000 PERCENT



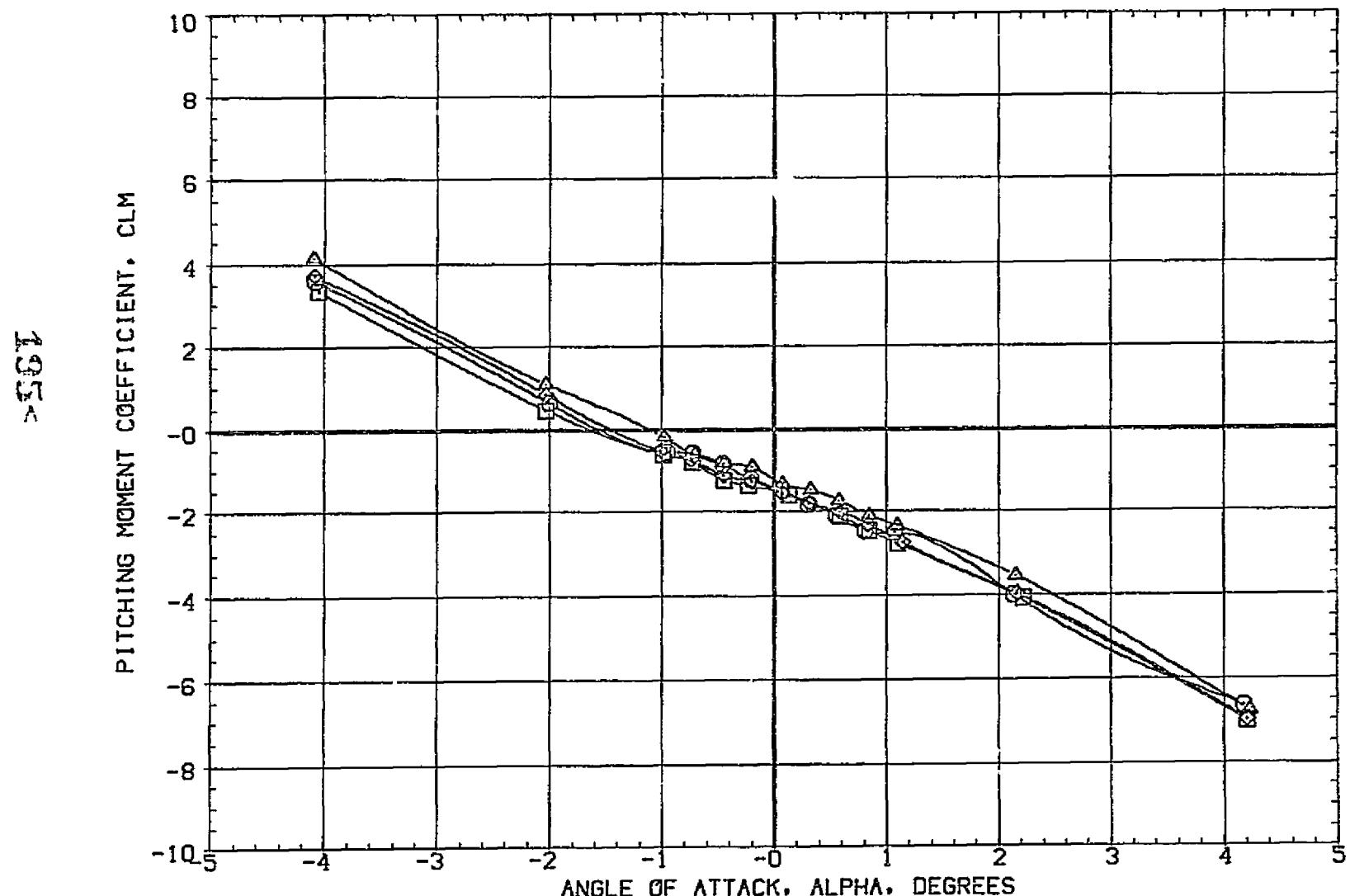
YAW MODULATION EFFECT

(G)MACH = 1.80

PAGE 171

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ✕ DCAT ARC 603/604 B2 F4 C  
 (BX1015) ✘ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	100.000	.000	86.000	SREF	.1100 SQ.FT.
.000	100.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



YAW MODULATION EFFECT

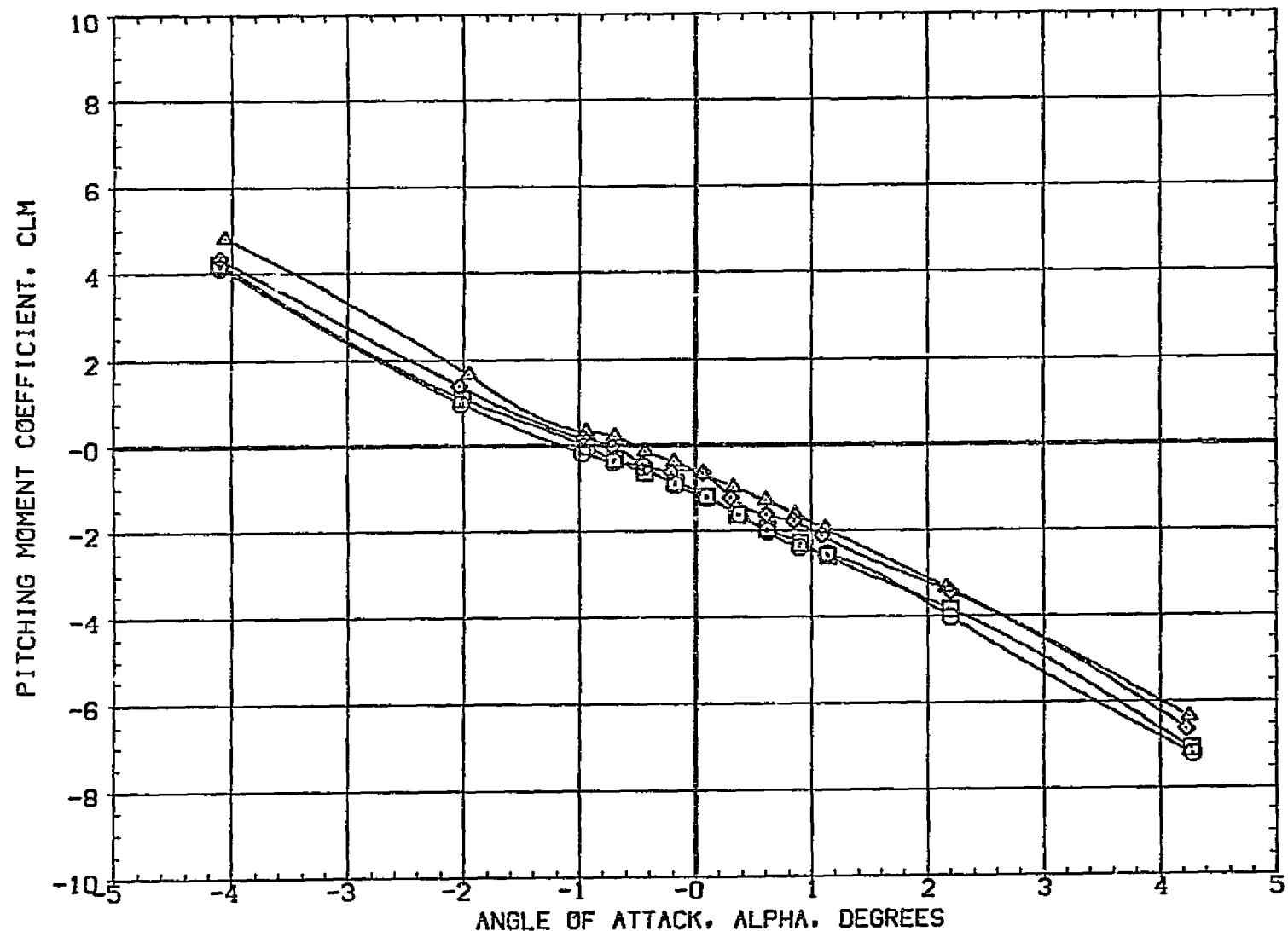
RAIMACH = 0.64

PAGE 172

DATA SET SYMSOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) O DCAT ARC 603/604 B2 F4 C  
 (BX1011) D DCAT ARC 603/604 B2 F4 C  
 (BX1015) D DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POU/PF	REFERENCE INFORMATION
.000	100.000	.000	86.000	SREF .1100 50.FT.
.000	100.000	40.000	86.000	LREF .3750 FT.
.000	100.000	60.000	86.000	BREF .3750 FT.
.000	100.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
SCALE	125.0000			PERCENT

>96T



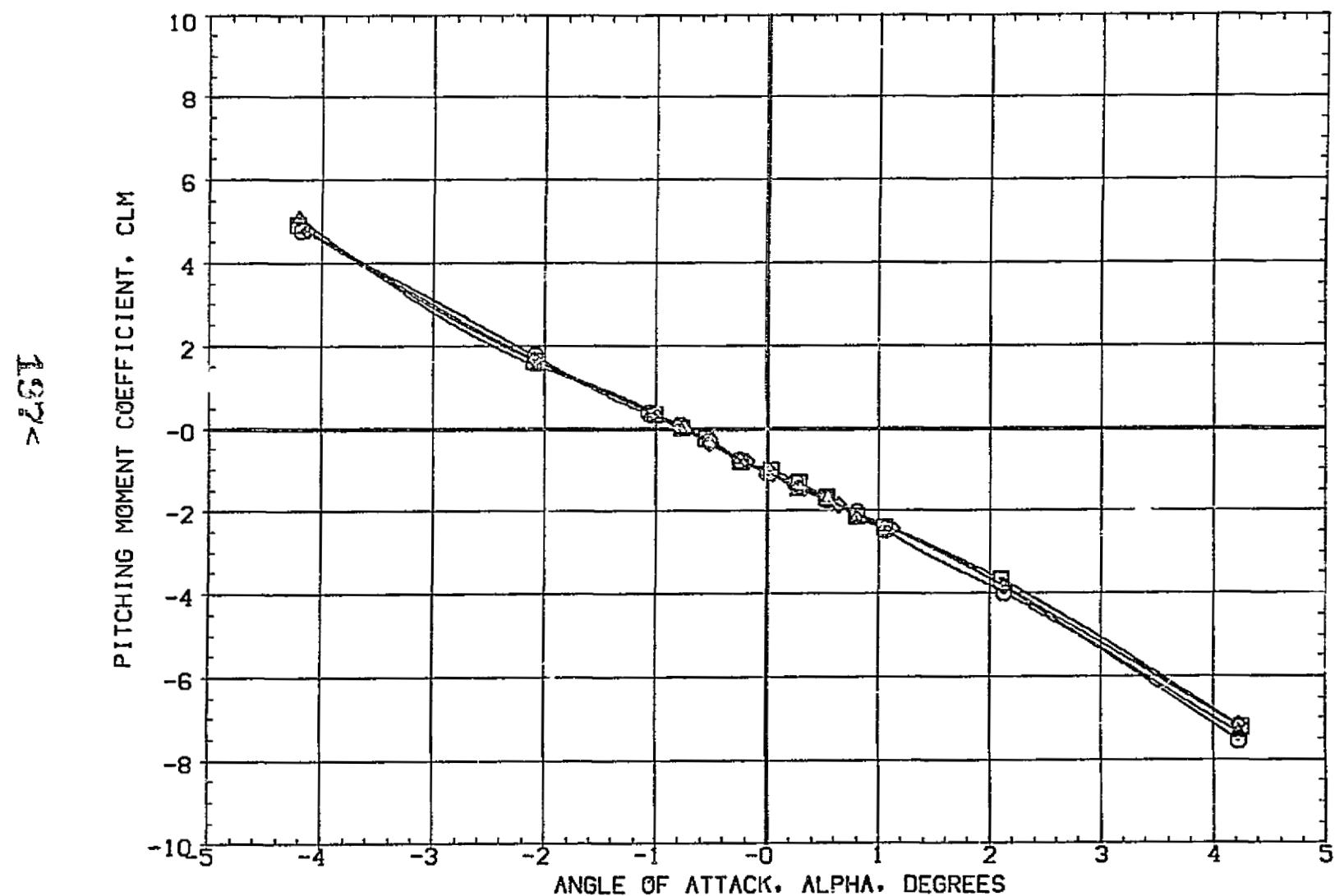
YAW MODULATION EFFECT

(B)MACH = 0.80

PAGE 173

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) OCAT ARC 603/604 B2 F4 C  
 (BX1008) □ OCAT ARC 603/604 B2 F4 C  
 (BX1011) X OCAT ARC 603/604 B2 F4 C  
 (BX1015) D OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE INFORMATION
.000	100.000	.000	86.000	SREF .1100 SQ.FT.
.000	100.000	40.000	86.000	LREF .3750 FT.
.000	100.000	60.000	86.000	BREF .3750 FT.
.000	100.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
SCALE	125.0000			PERCENT



YAW MODULATION EFFECT

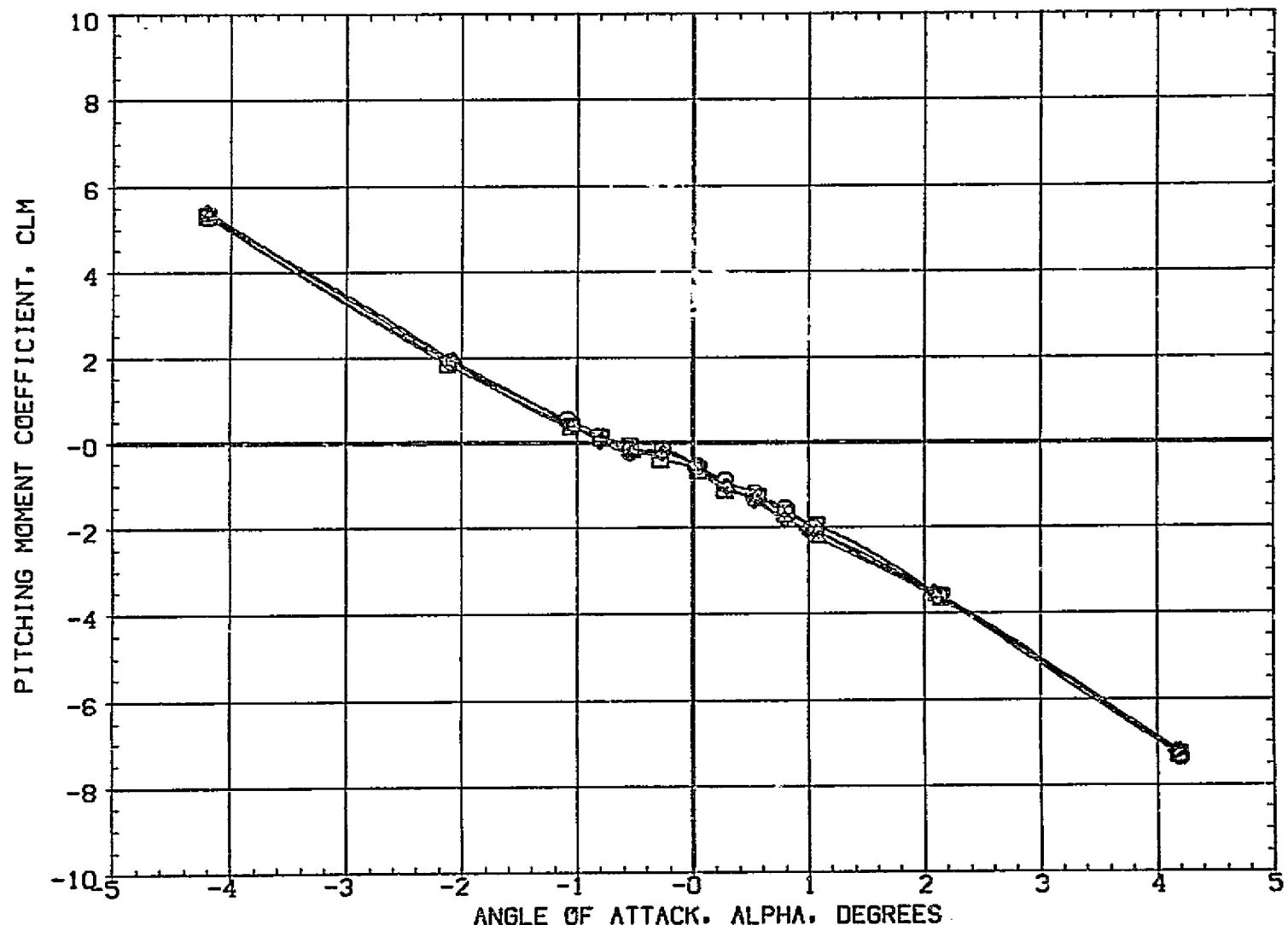
MACH = 0.95

PAGE 174

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) ✕ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PQJ/PF	REFERENCE	INFORMATION
.000	100.000	.000	66.000	SREF	.1100 SQ.FT.
.000	100.000	40.000	66.000	LREF	.3750 FT.
.000	100.000	60.000	66.000	BREF	.3760 FT.
.000	100.000	100.000	66.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

>S6:T



YAW MODULATION EFFECT

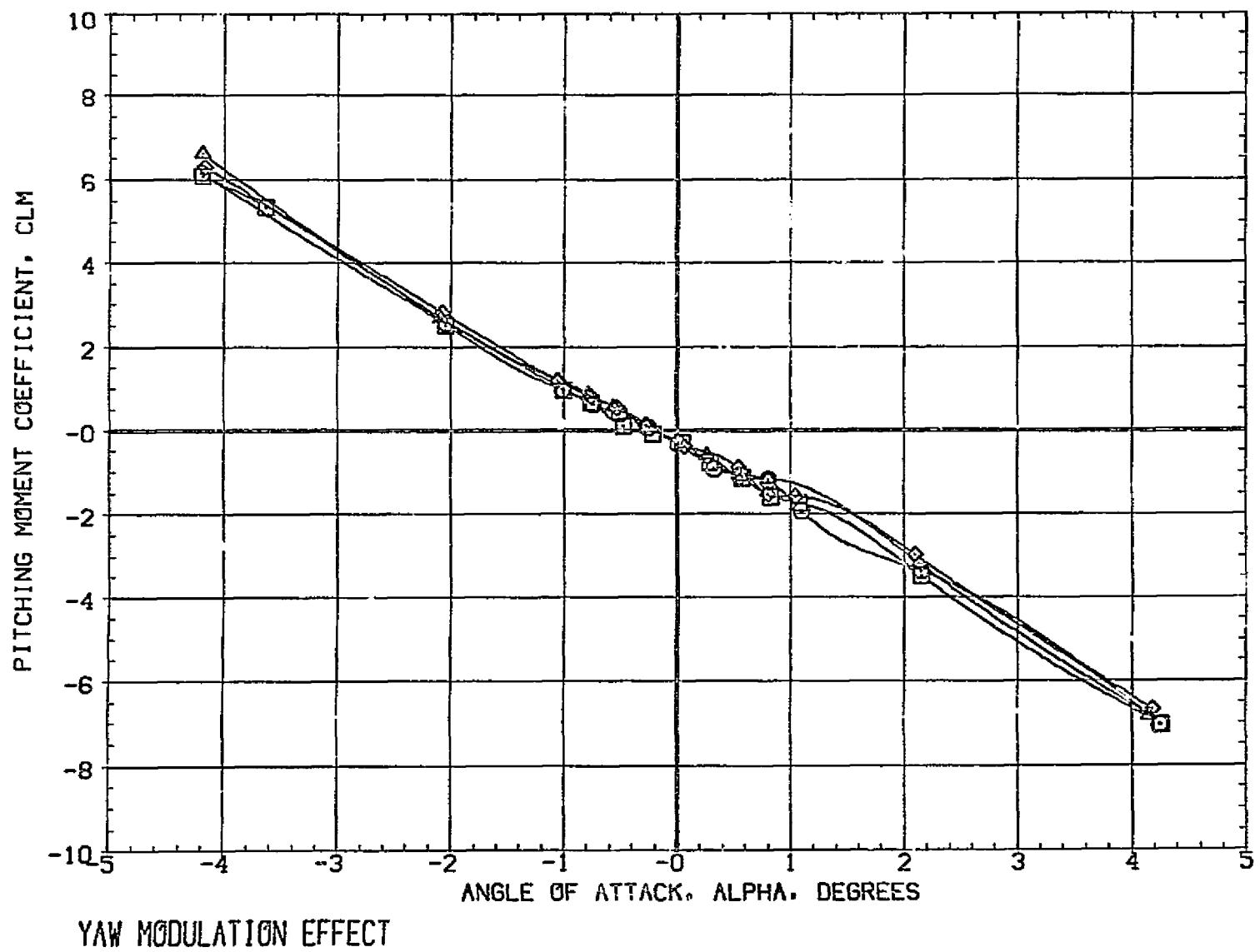
(D)MACH = 1.00

PAGE 175

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◇ DCAT ARC 603/604 B2 F4 C  
 (BX1015) △ DCAT ARC 603/604 B2 F4 C

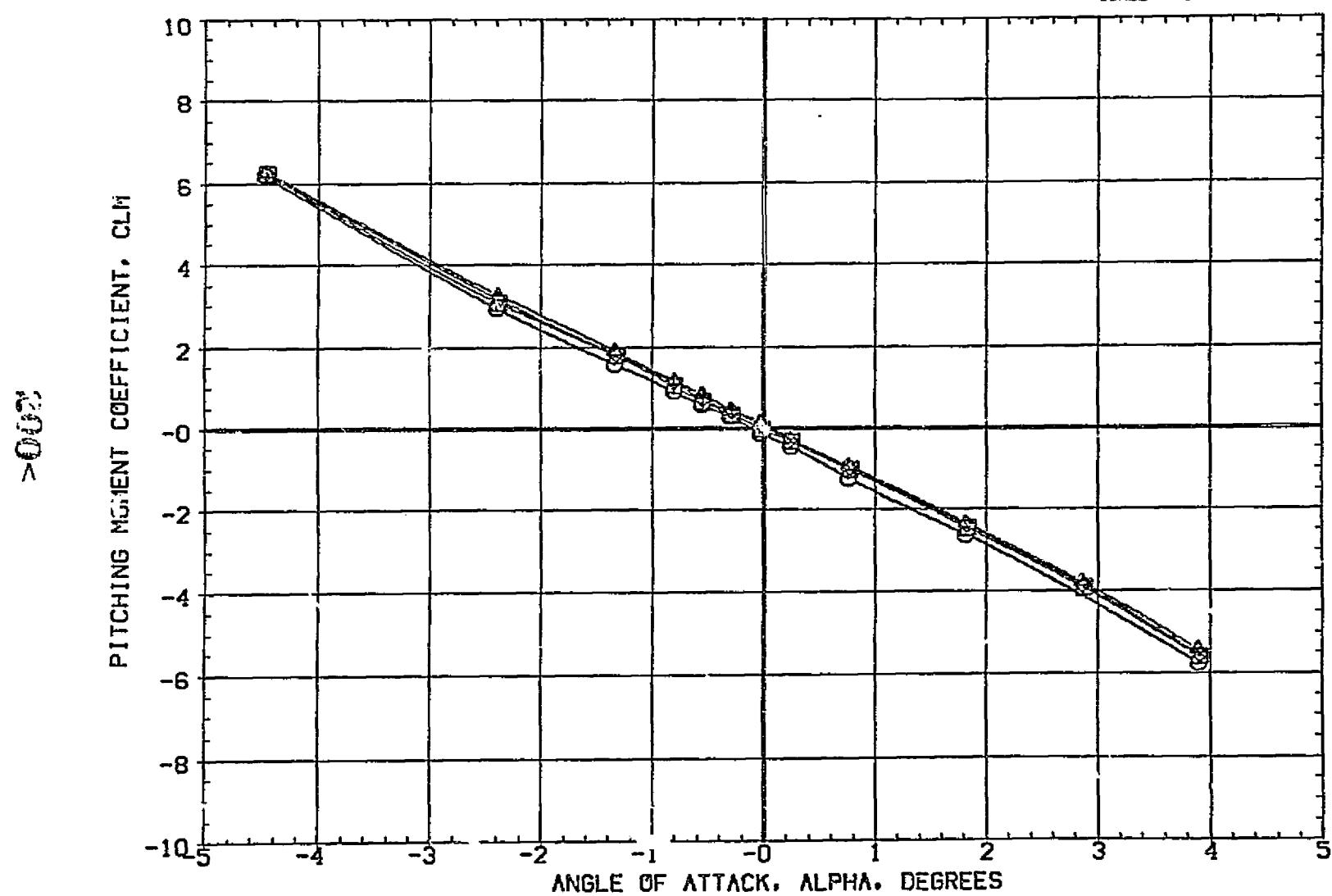
BETA	P-MOD	Y-MOD	POW/PF	REFERENCE	INFORMATION
.000	100.000	.000	86.000	SREF	.1100 SO.FT.
.000	100.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

>68%



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) Δ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE INFORMATION
.000	100.000	.000	86.000	SREF .1100 SD.FT.
.000	100.000	40.000	86.000	LREF .3750 FT.
.000	100.000	60.000	86.000	BREF .3750 FT.
.000	100.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



YAW MODULATION EFFECT

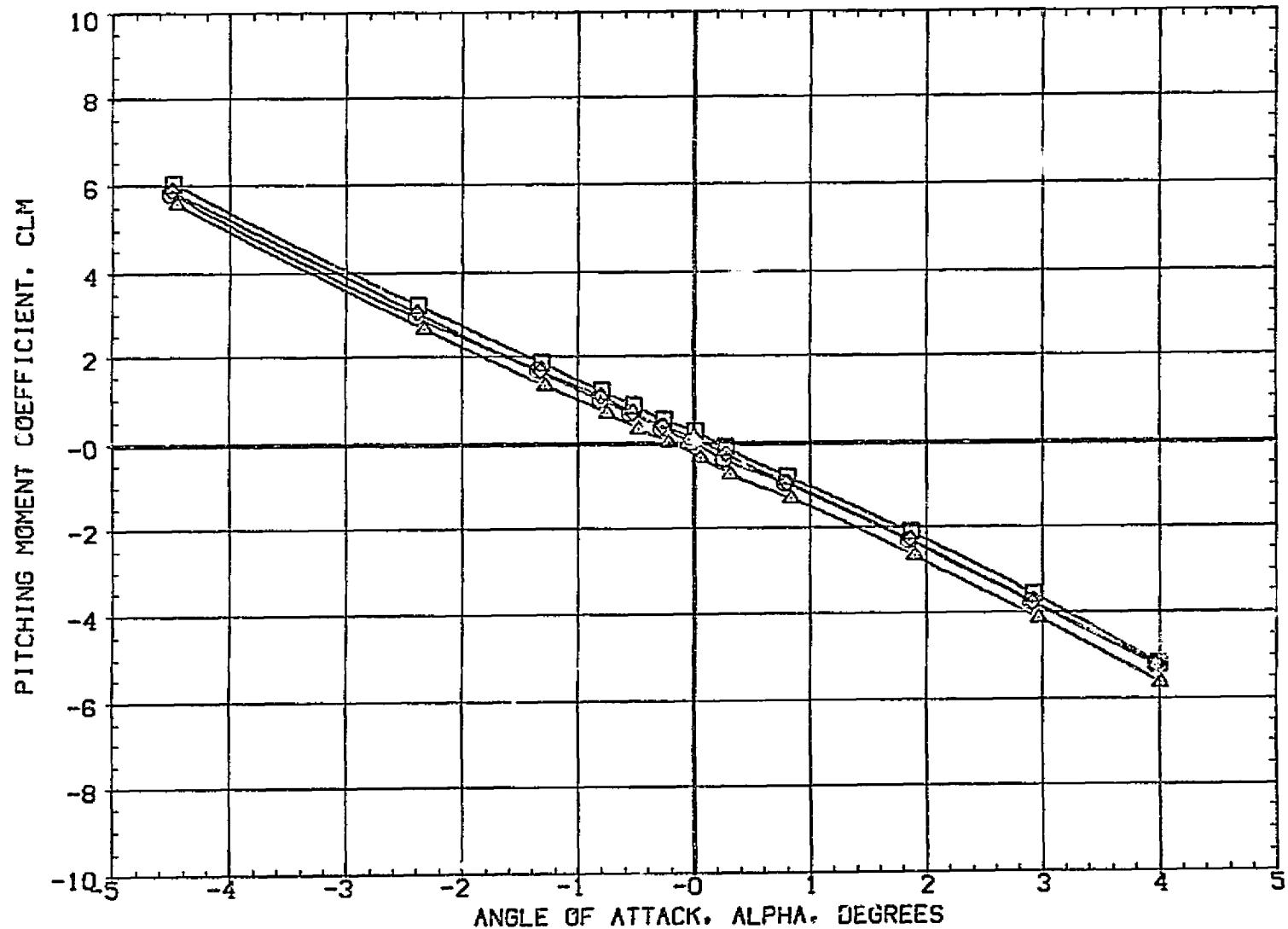
(FMACH = 1.56

PAGE 177

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) A DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PQJ/PF	REFERENCE	INFORMATION
.000	100.000	.000	85.000	SREF	.1100 SQ.FT.
.000	100.000	40.000	85.000	LREF	.3750 FT.
.000	100.000	60.000	85.000	BREF	.3750 FT.
.000	100.000	100.000	85.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

> T32



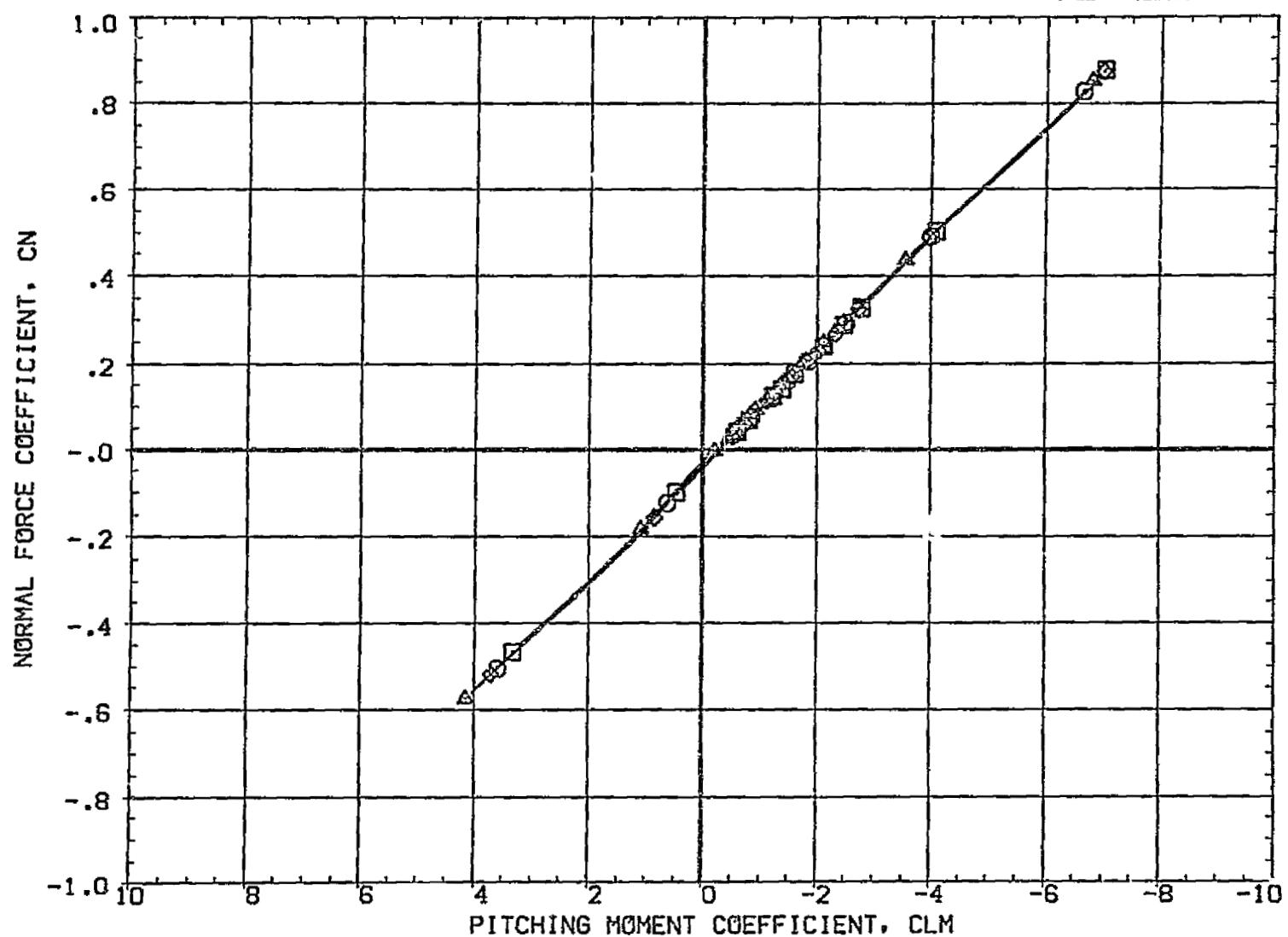
YAW MODULATION EFFECT

(G)MACH = 1.80

PAGE 178

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0V/PF	REFERENCE	INFORMATION
.000	100.000	.000	86.000	SREF	.1100 SD.FT.
.000	100.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



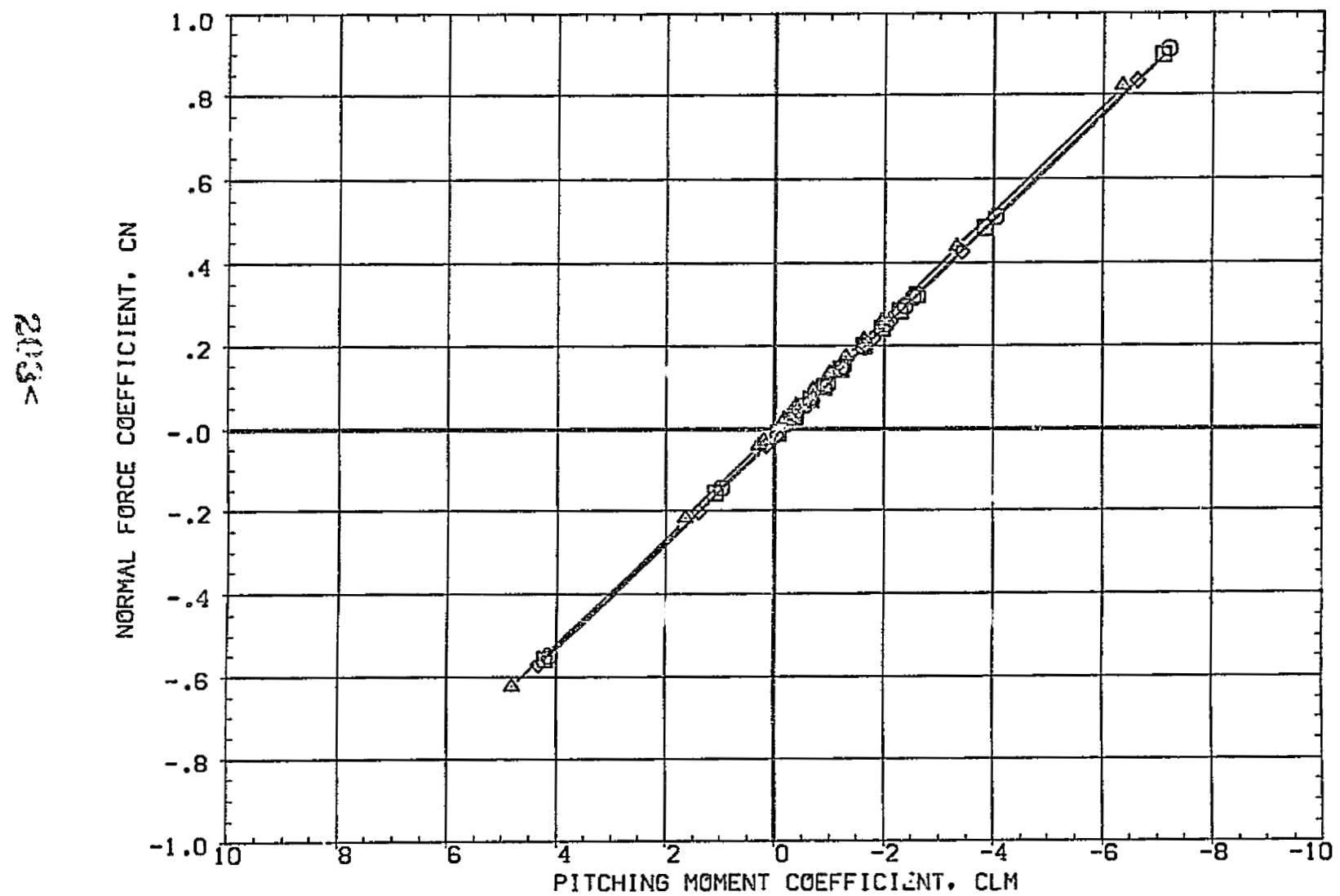
YAW MODULATION EFFECT

(A)MACH = 0.64

PAGE 179

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◊ DCAT ARC 603/604 B2 F4 C  
 (BX1015) △ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	100.000	.000	26.000	SREF	.1100 SQ.FT.
.000	100.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

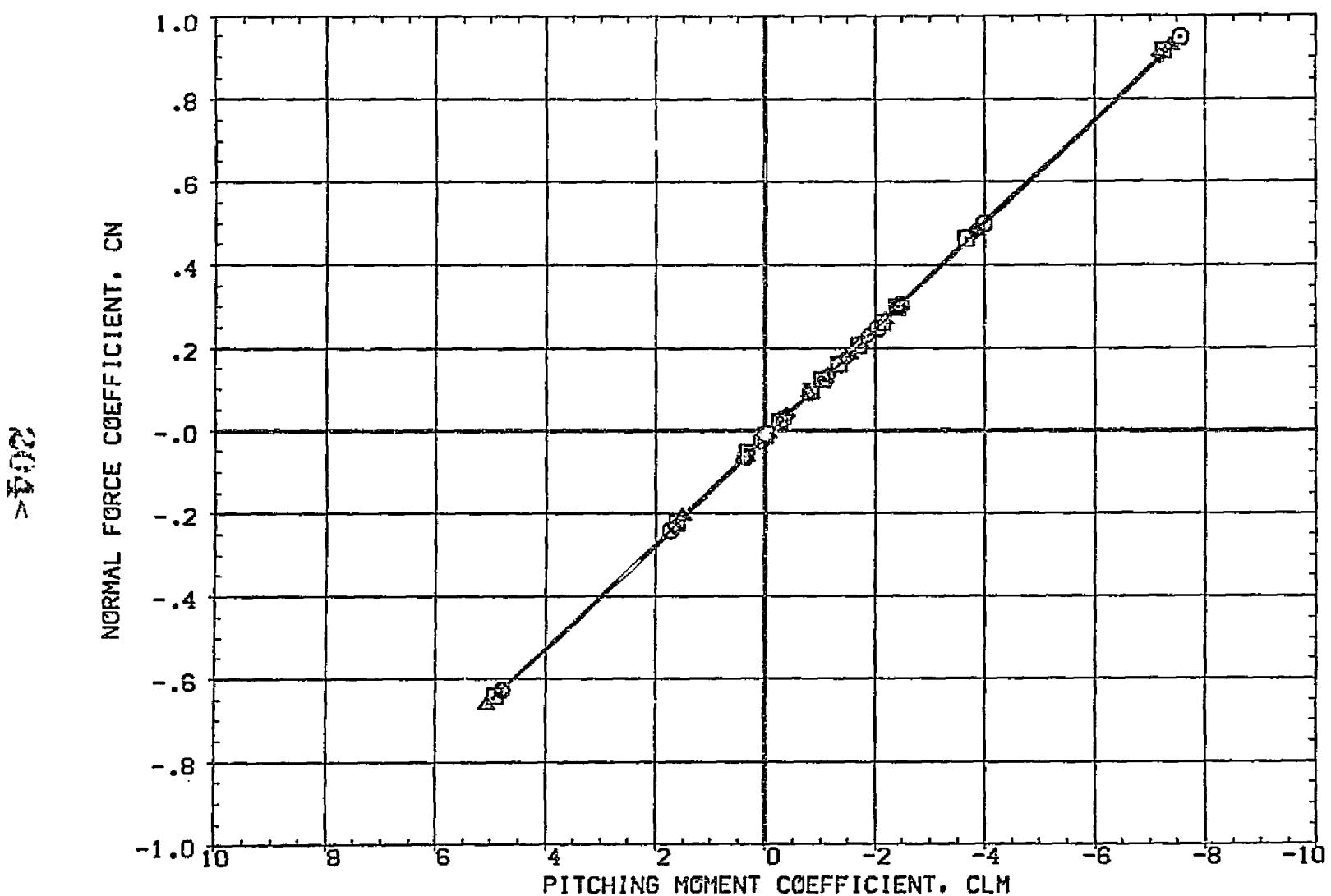


YAW MODULATION EFFECT

CRIMACH = 0.80

PAGE 180

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	PQJ/PF	REFERENCE	INFORMATION
(BX1005)	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000	SREF	.1100 SQ.FT.
(BX1008)	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000	LREF	.3750 FT.
(BX1011)	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000	BREF	.3750 FT.
(BX1015)	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	86.000	XMRP	.0000 FT.
						YMRP	.0000 FT.
						ZMRP	.0000 FT.
						SCALE	125.0000 PERCENT



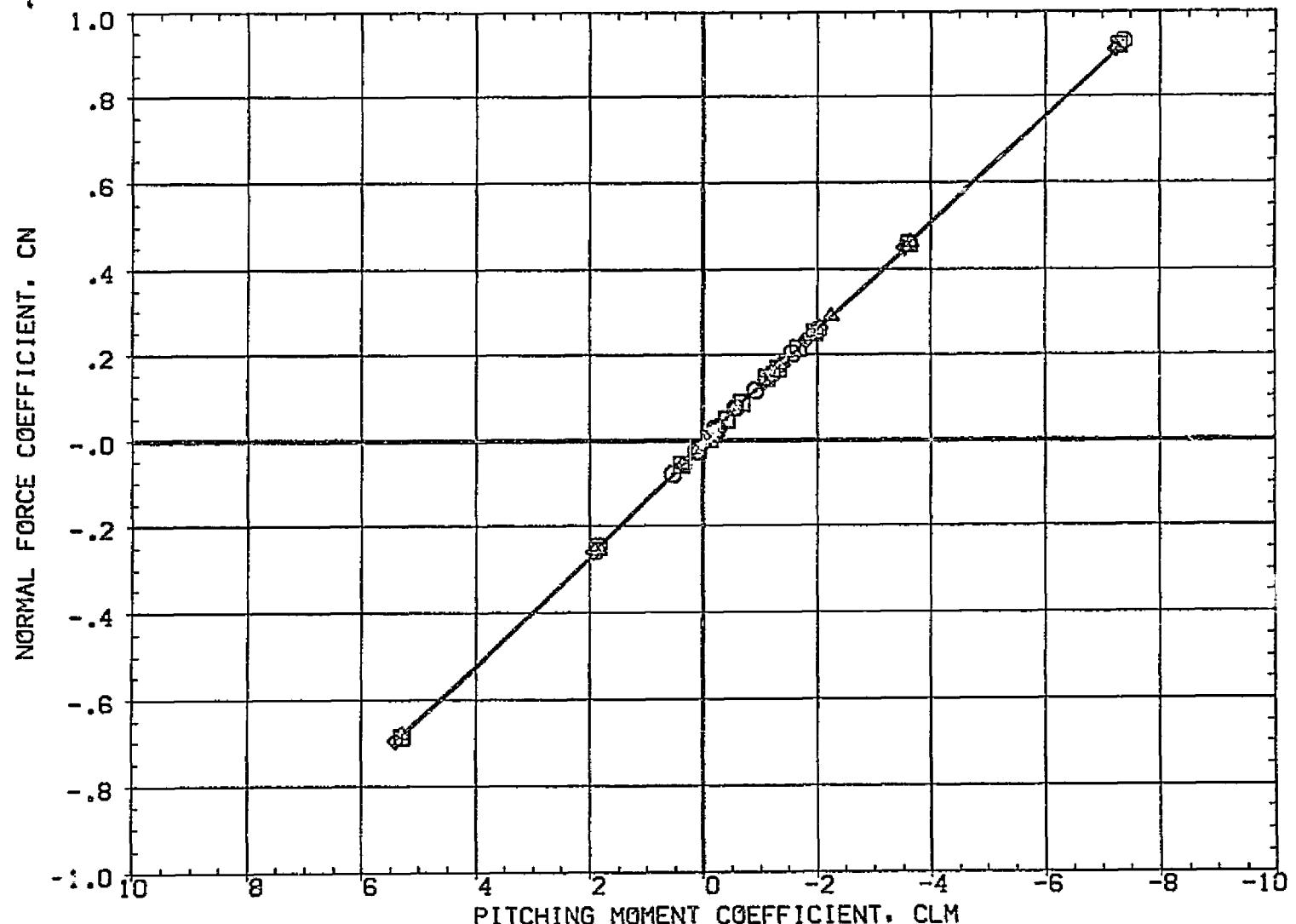
YAW MODULATION EFFECT

(C)MACH = 0.95

PAGE 181

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) DCAT ARC 603/604 82 F4 C  
 (BX1008) DCAT ARC 603/604 82 F4 C  
 (BX1011) DCAT ARC 603/604 82 F4 C  
 (BX1015) DCAT ARC 603/604 82 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	100.000	.000	86.000	SREF .1100 50.FT.
.000	100.000	40.000	86.000	LREF .3750 FT.
.000	100.000	60.000	86.000	BREF .3750 FT.
.000	100.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



YAW MODULATION EFFECT

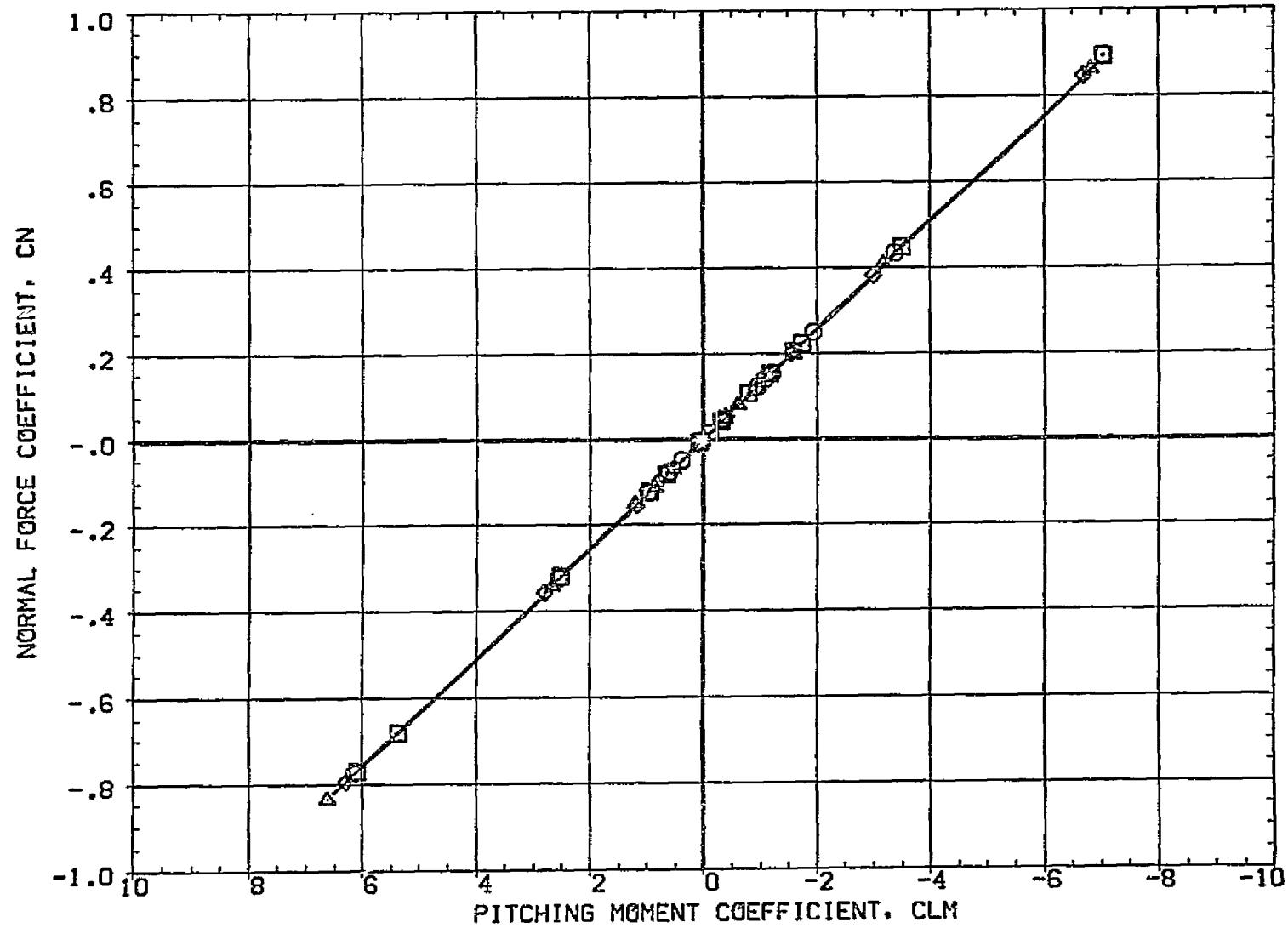
MACH = 1.00

PAGE 182

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1009) X DCAT ARC 603/604 B2 F4 C  
 (BX1011) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PCG/PF	REFERENCE INFORMATION
.000	100.000	.000	86.000	SREF .1100 SQ.FT.
.000	100.000	40.000	86.000	CREF .3750 FT.
.000	100.000	60.000	86.000	BREF .3750 FT.
		XHYP .0000 FT.		
		ZHYP .0000 FT.		
SCALE	125.0000 PERCENT			

>302



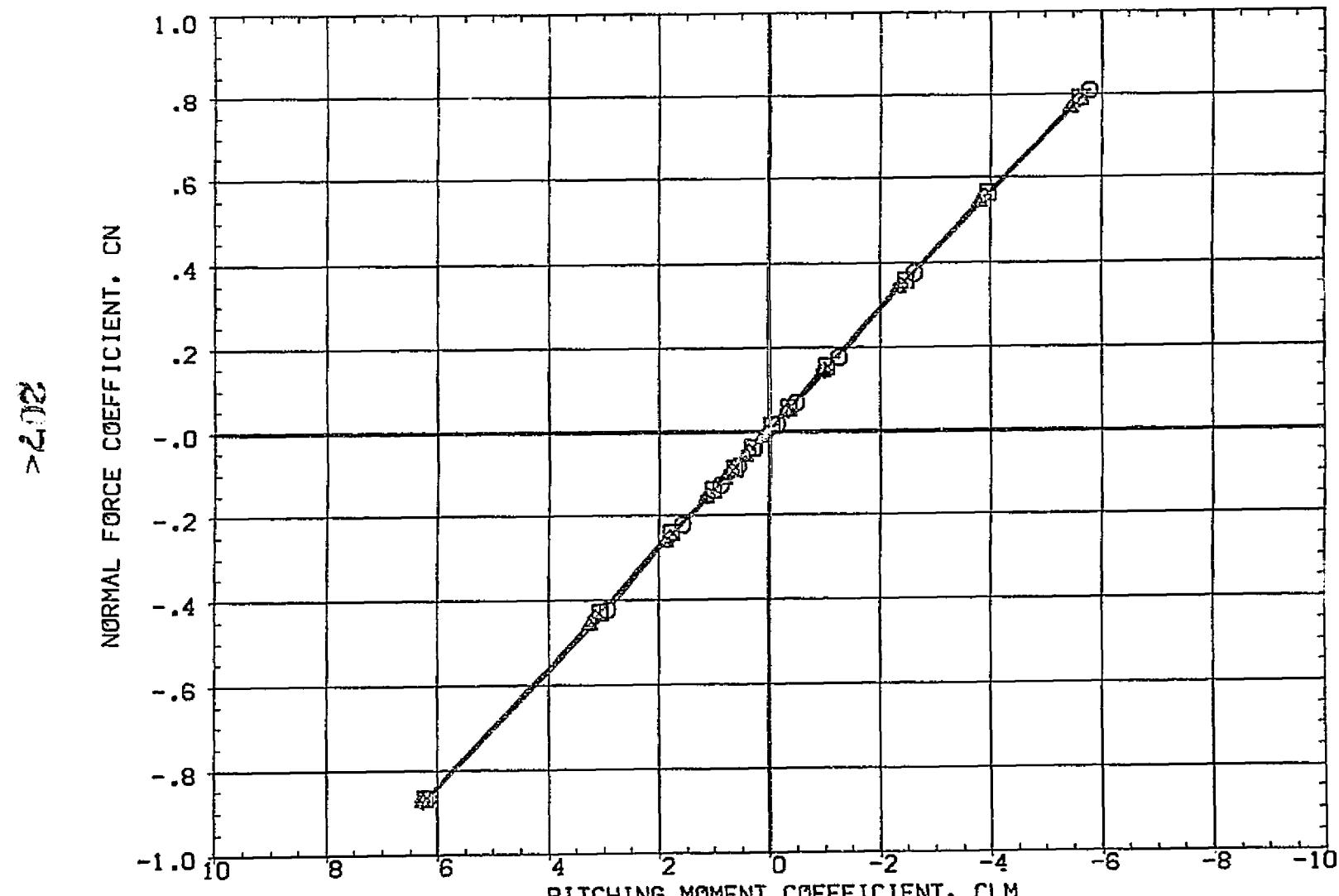
YAW MODULATION EFFECT

(E)MACH = 1.10

PAGE 183

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) C DCAT ARC 603/604 B2 F4 C  
 (BX1008) D DCAT ARC 603/604 S2 F4 C  
 (BX1011) E DCAT ARC 603/604 B2 F4 C  
 (BX1015) X DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE	INFORMATION
.000	100.000	.000	86.000	SREF	.1100 SQ.FT.
.000	100.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



YAW MODULATION EFFECT

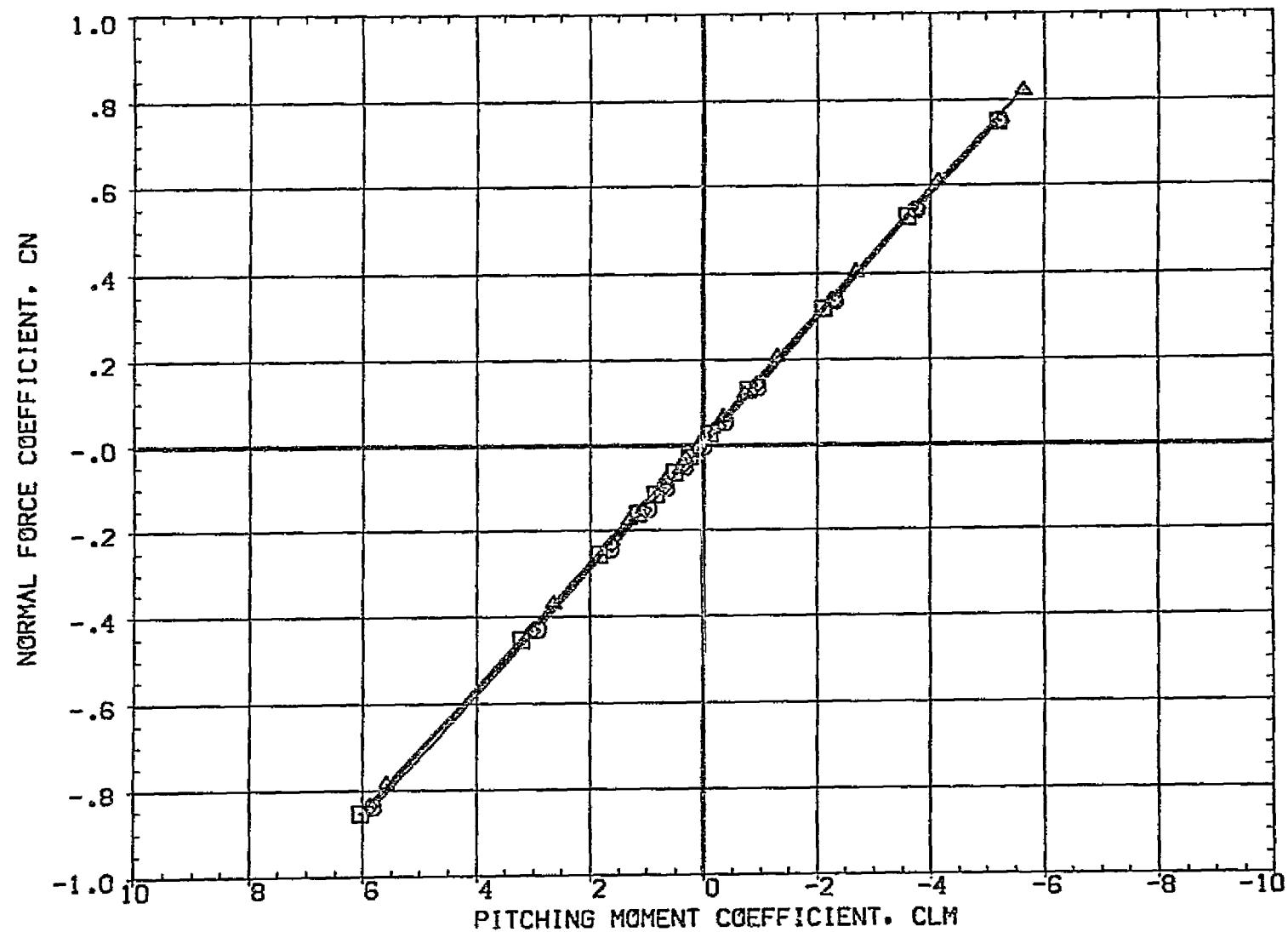
REFMACH = 1.56

PAGE 184

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) DCAT ARC 603/604 B2 F4 C  
 (BX1008) DCAT ARC 603/604 B2 F4 C  
 (BX1011) DCAT ARC 603/604 B2 F4 C  
 (BX1015) DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	100.000	.000	86.000	SREF	.1100 SQ.FT.
.000	100.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

>8.12



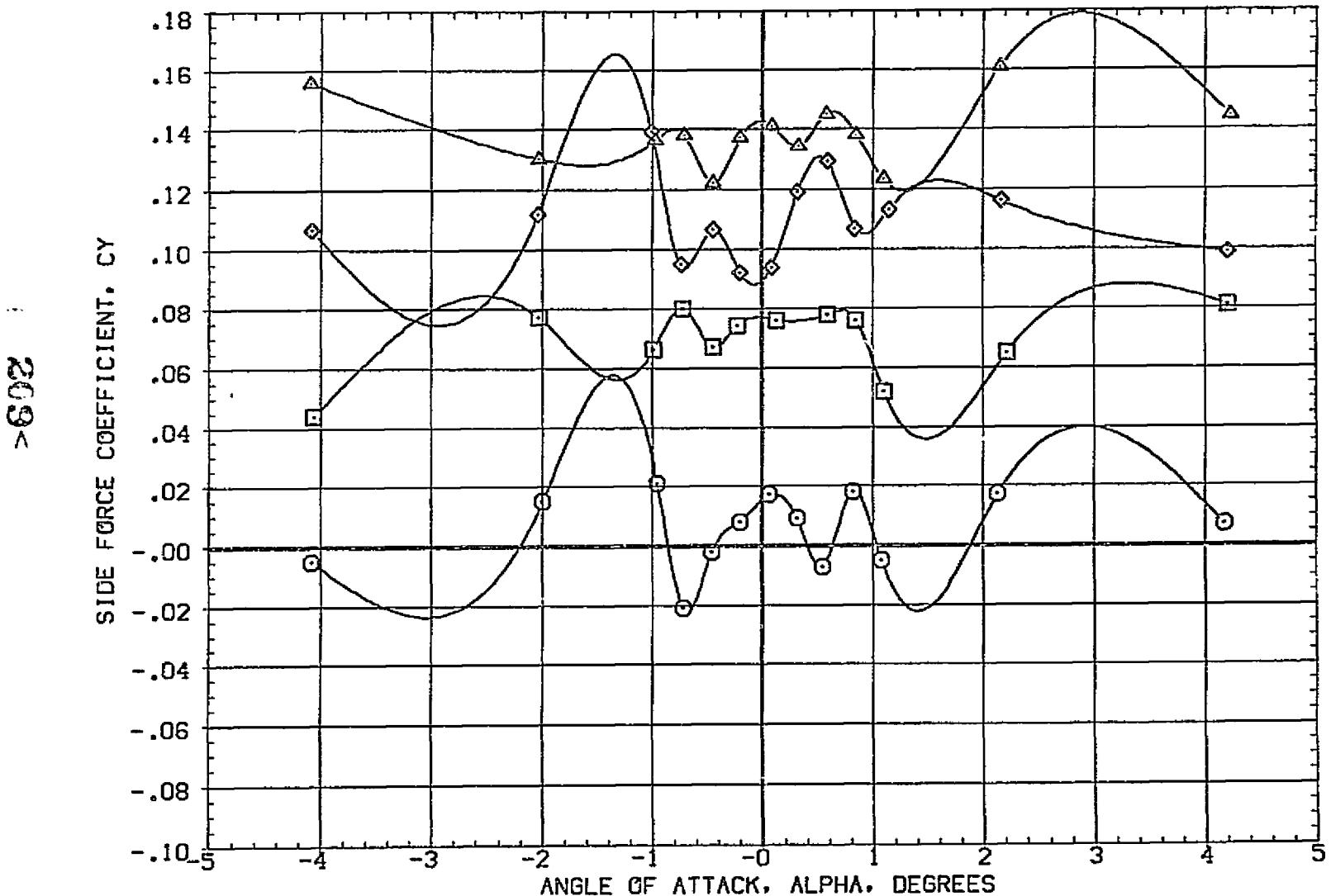
YAW MODULATION EFFECT

(G)MACH = 1.80

PAGE 185

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) Δ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PQJ/PF	REFERENCE	INFORMATION
.000	100.000	.000	85.000	SREF	.1100 SQ.FT.
.000	100.000	40.000	85.000	LREF	.3750 FT.
.000	100.000	60.000	85.000	BREF	.3750 FT.
.000	100.000	100.000	85.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

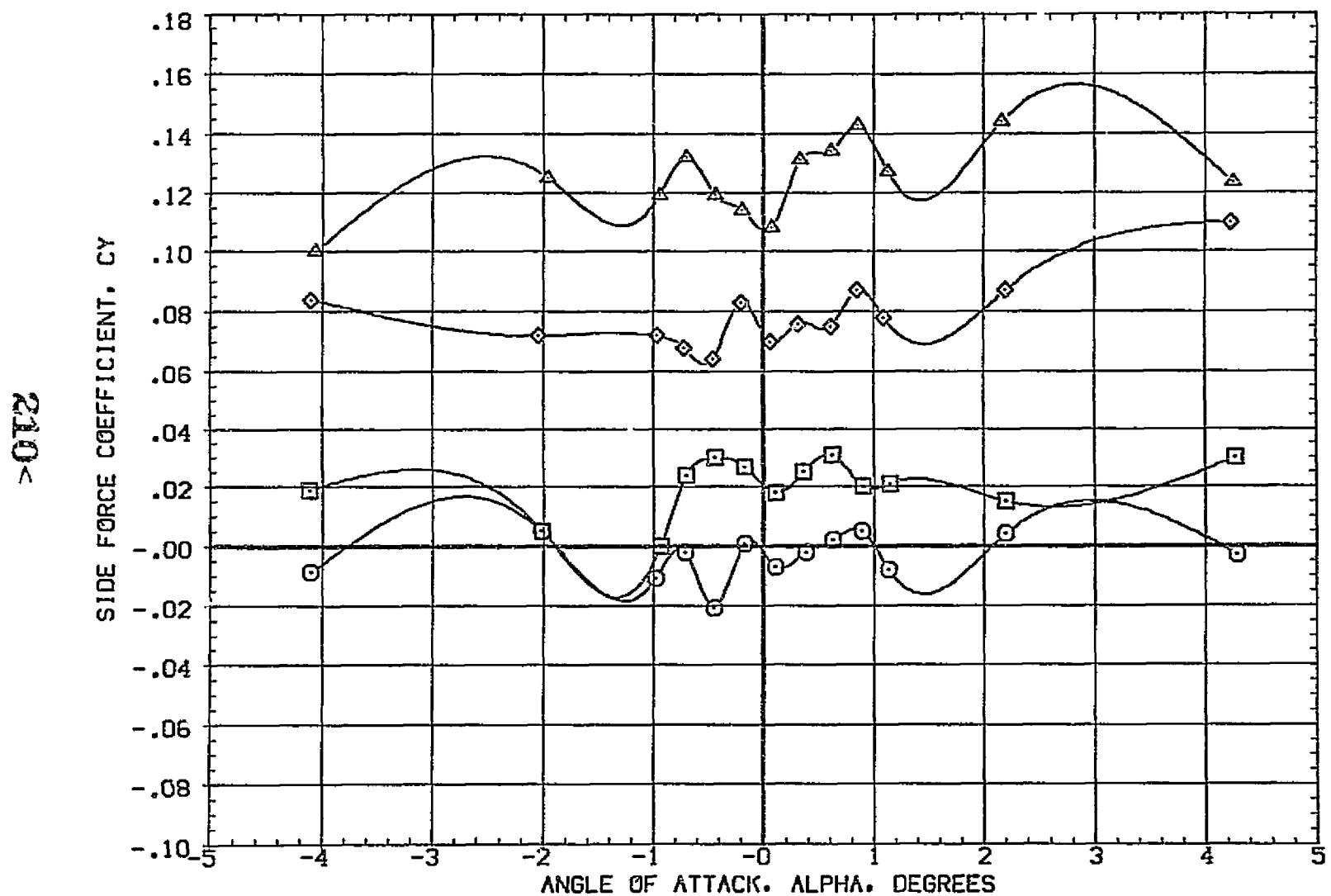


### YAW MODULATION EFFECT

MACH = 0.64

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) X DCAT ARC 603/604 B2 F4 C  
 (BX1015) ✕ DCAT ARC 603/604 B2 F4 C

BETA P-MOD Y-MOD POJ/PF REFERENCE INFORMATION  
 .000 100.000 .000 86.000 SREF .1:00 SD.FT.  
 .000 100.000 40.000 86.000 LREF 3750 FT.  
 .000 100.000 60.000 86.000 BREF 3750 FT.  
 .000 100.000 100.000 86.000 XMRP .0000 FT.  
 .000 100.000 100.000 86.000 YMRP .0000 FT.  
 .000 100.000 100.000 86.000 ZMRP .0000 FT.  
 SCALE 125.0000 PERCNT

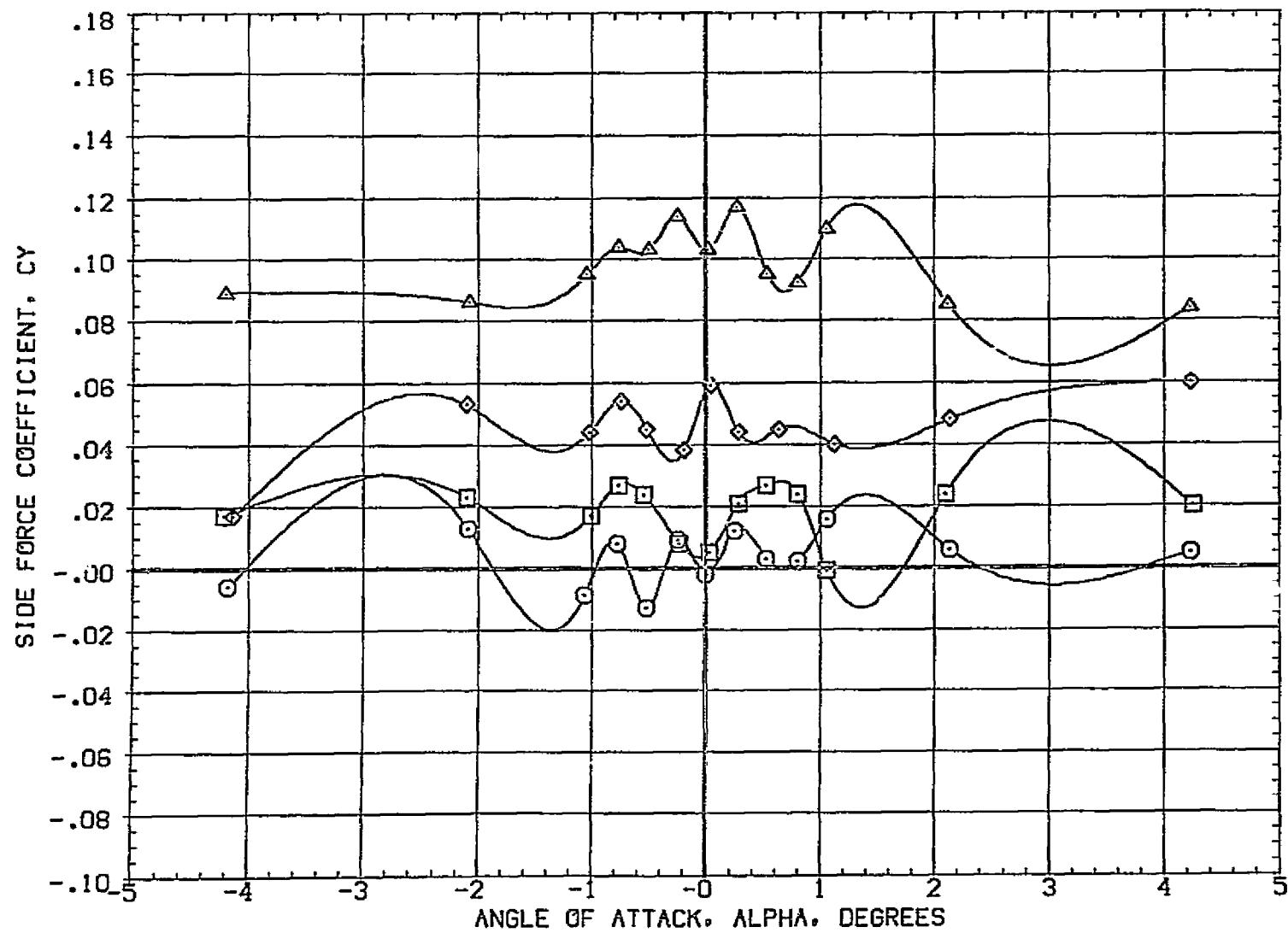


### YAW MODULATION EFFECT

(B)MACH = 0.80

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◊ DCAT ARC 603/604 B2 F4 C  
 (BX1015) △ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PQJ/PF	REFERENCE	INFORMATION
.000	100.000	.000	86.000	SREF	.1100 SQ.FT.
.000	100.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



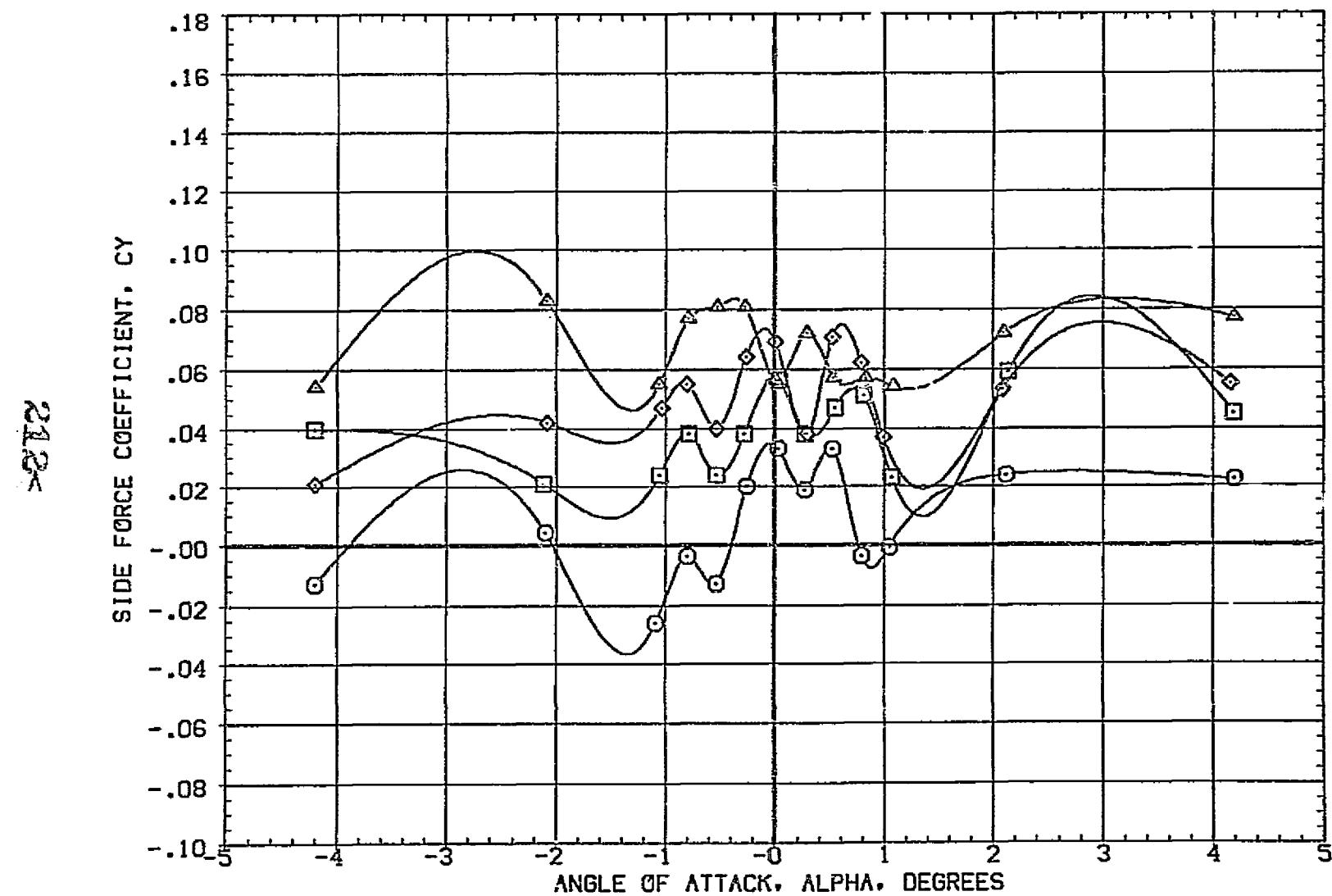
### YAW MODULATION EFFECT

SCALING = 0.25

PAGE 188

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) DCAT ARC 603/604 B2 F4 C  
 (BX1008) DCAT ARC 603/604 B2 F4 C  
 (BX1011) DCAT ARC 603/604 B2 F4 C  
 (BX1015) DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE	INFORMATION
.000	100.000	.000	86.000	SREF	.1100 SQ.FT.
.000	100.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	66.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



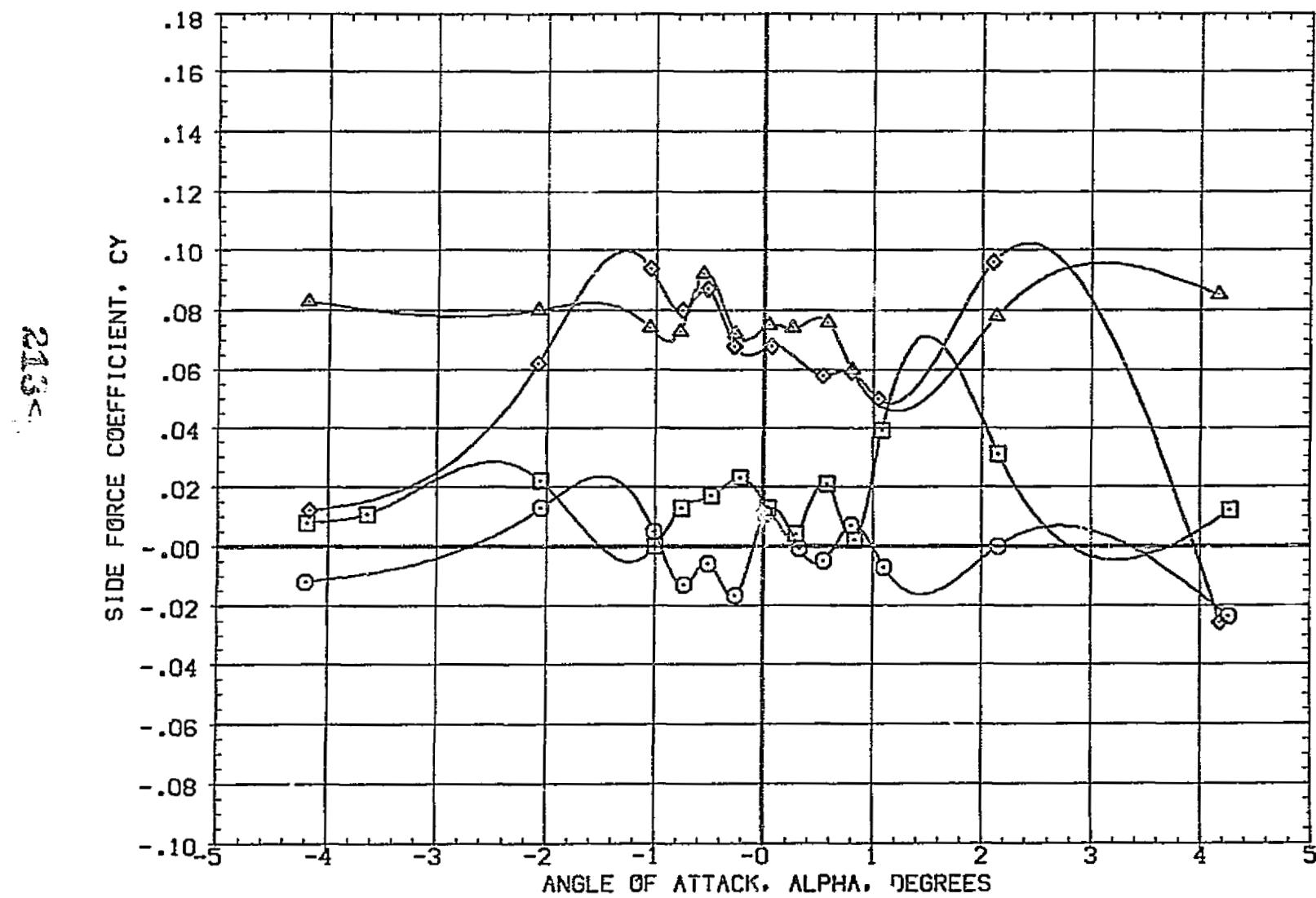
### YAW MODULATION EFFECT

CDMACH = 1.00

PAGE 189

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) ◇ DCAT ARC 603/604 B2 F4 C  
 (BX1015) Δ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE INFORMATION
.000	100.000	.000	86.000	SREF .1100 SQ.FT.
.000	100.000	40.000	86.000	LREF .3750 FT.
.000	100.000	60.000	86.000	BREF .3750 FT.
.000	100.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



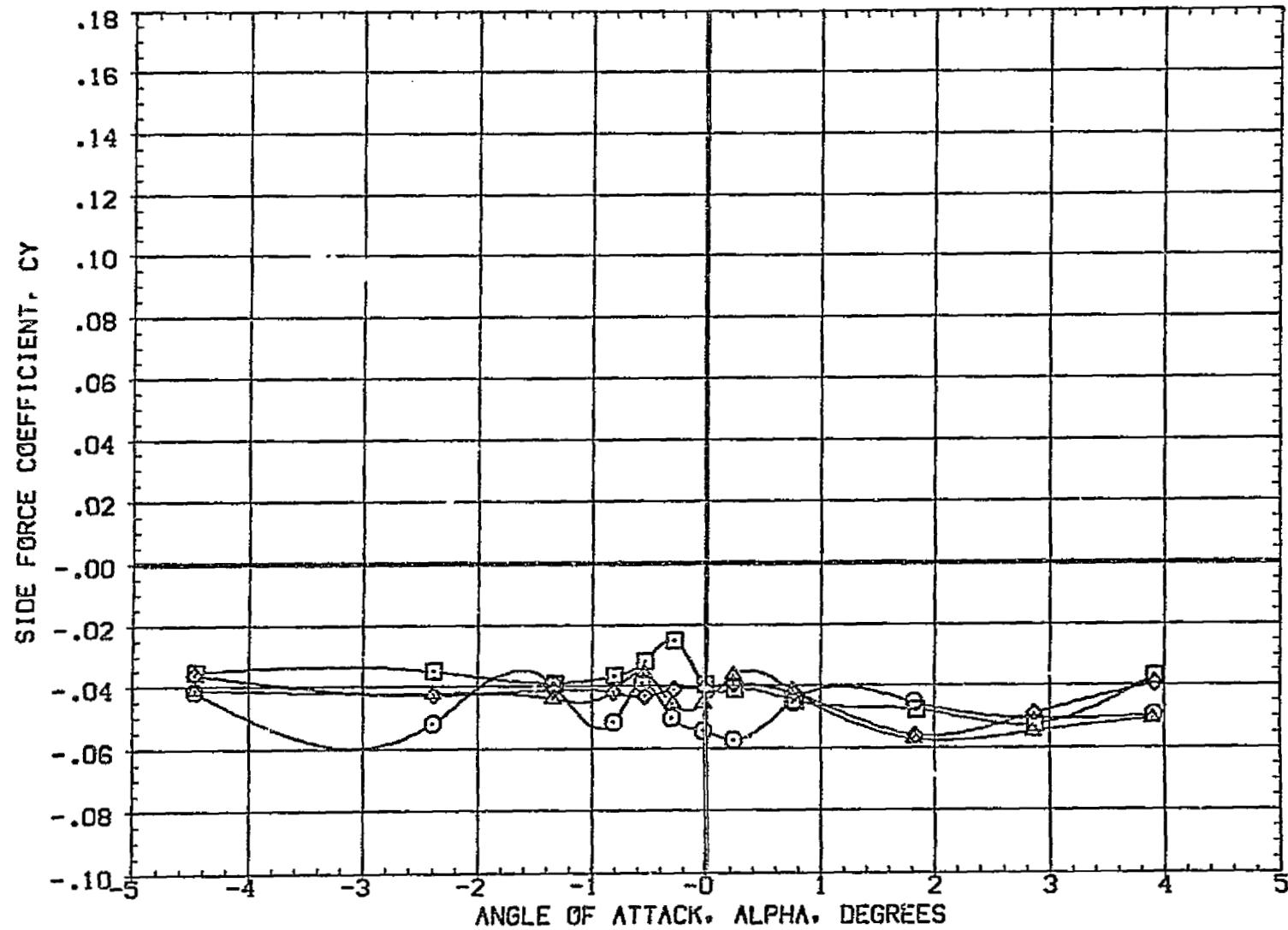
YAW MODULATION EFFECT

(E)MACH = 1.10

PAGE 190

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) X DCAT ARC 603/604 B2 F4 C  
 (BX1011)  $\times$  DCAT ARC 603/604 B2 F4 C  
 (BX1015)  $\Delta$  DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	100.000	.000	86.000	SREF	.1100 SQ.FT.
.000	100.000	40.000	86.000	LREF	.3750 FT.
.000	100.000	60.000	86.000	BREF	.3750 FT.
.000	100.000	100.000	86.000	XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



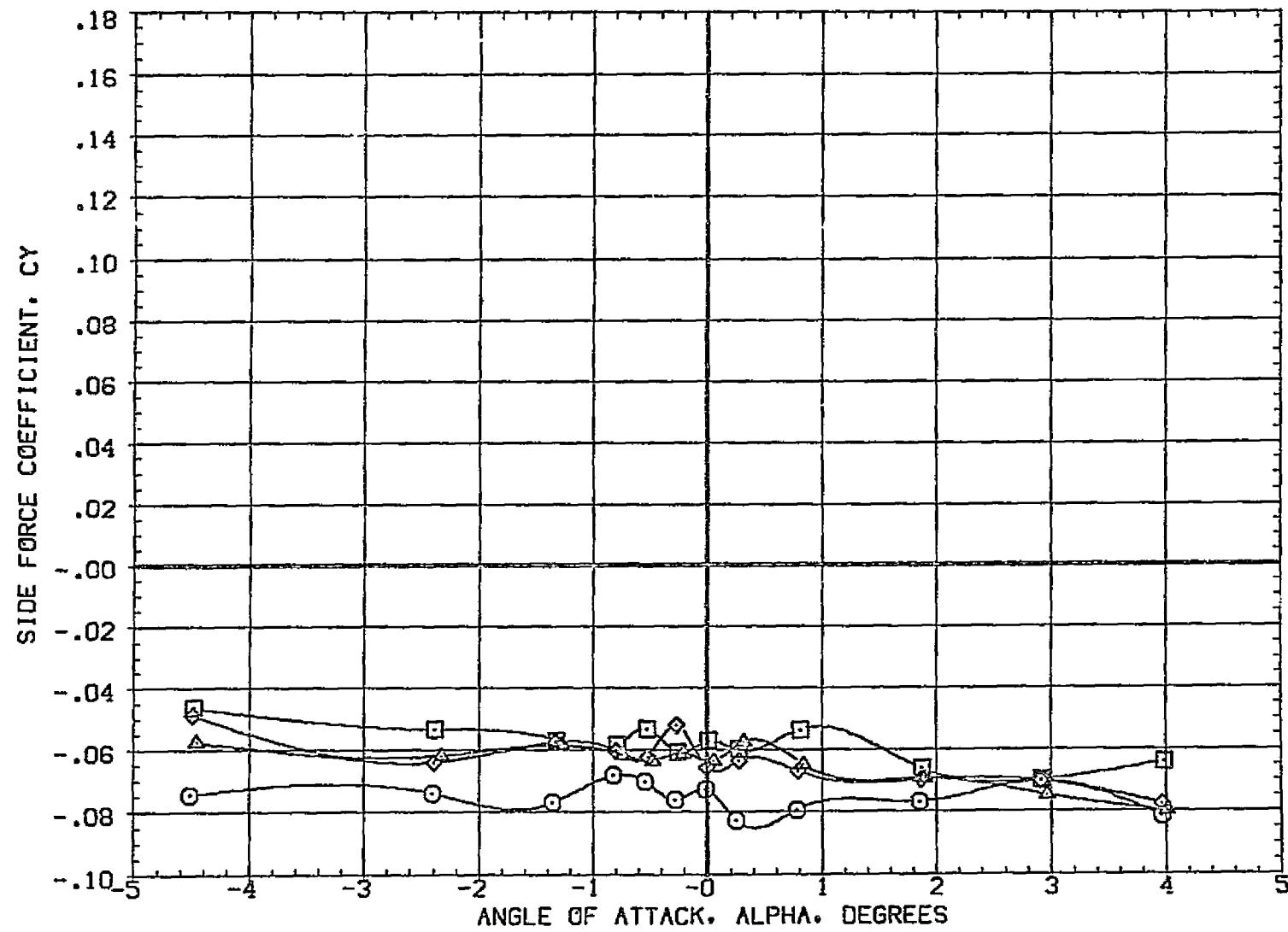
YAW MODULATION EFFECT

(FMACH = 1.56)

PAGE 191

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1005) O DCAT ARC 603/604 B2 F4 C  
 (BX1008) □ DCAT ARC 603/604 B2 F4 C  
 (BX1011) × DCAT ARC 603/604 B2 F4 C  
 (BX1015) Δ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PDJ/PF	REFERENCE INFORMATION
.000	100.000	.000	86.000	SREF .1100 SD.FT.
.000	100.000	40.000	86.000	LREF .3750 FT.
.000	100.000	60.000	86.000	BREF .3750 FT.
.000	100.000	100.000	86.000	XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



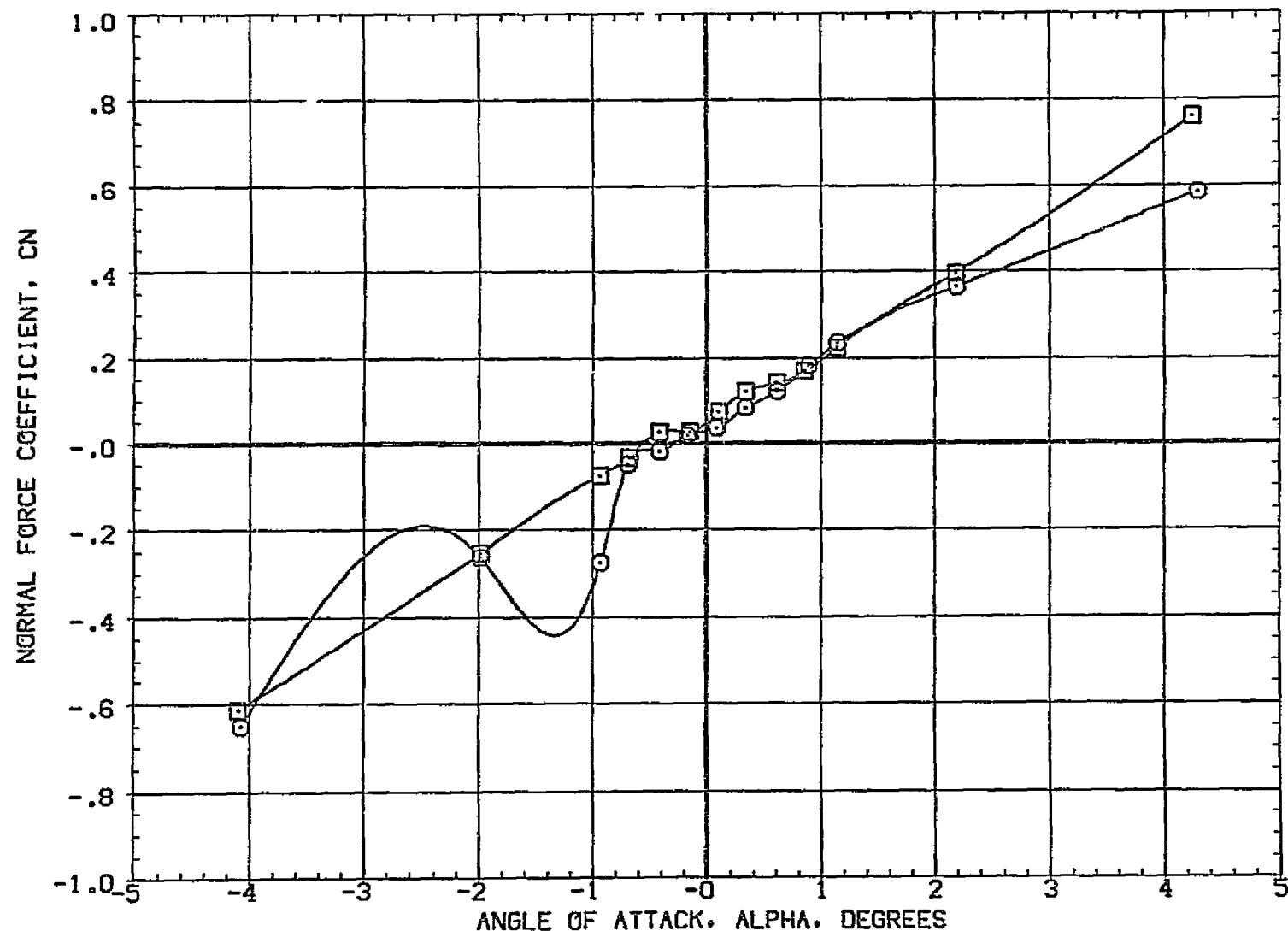
### YAW MODULATION EFFECT

CGMACH = 1.80

PAGE 192

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1019) O DCAT ARC 603/604 B2 F4 C  
 (BX1020) □ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	.000	.000	130.000	SREF	.1100 SQ.FT.
.000	100.000	.000	130.000	LREF	.3750 FT.
				BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



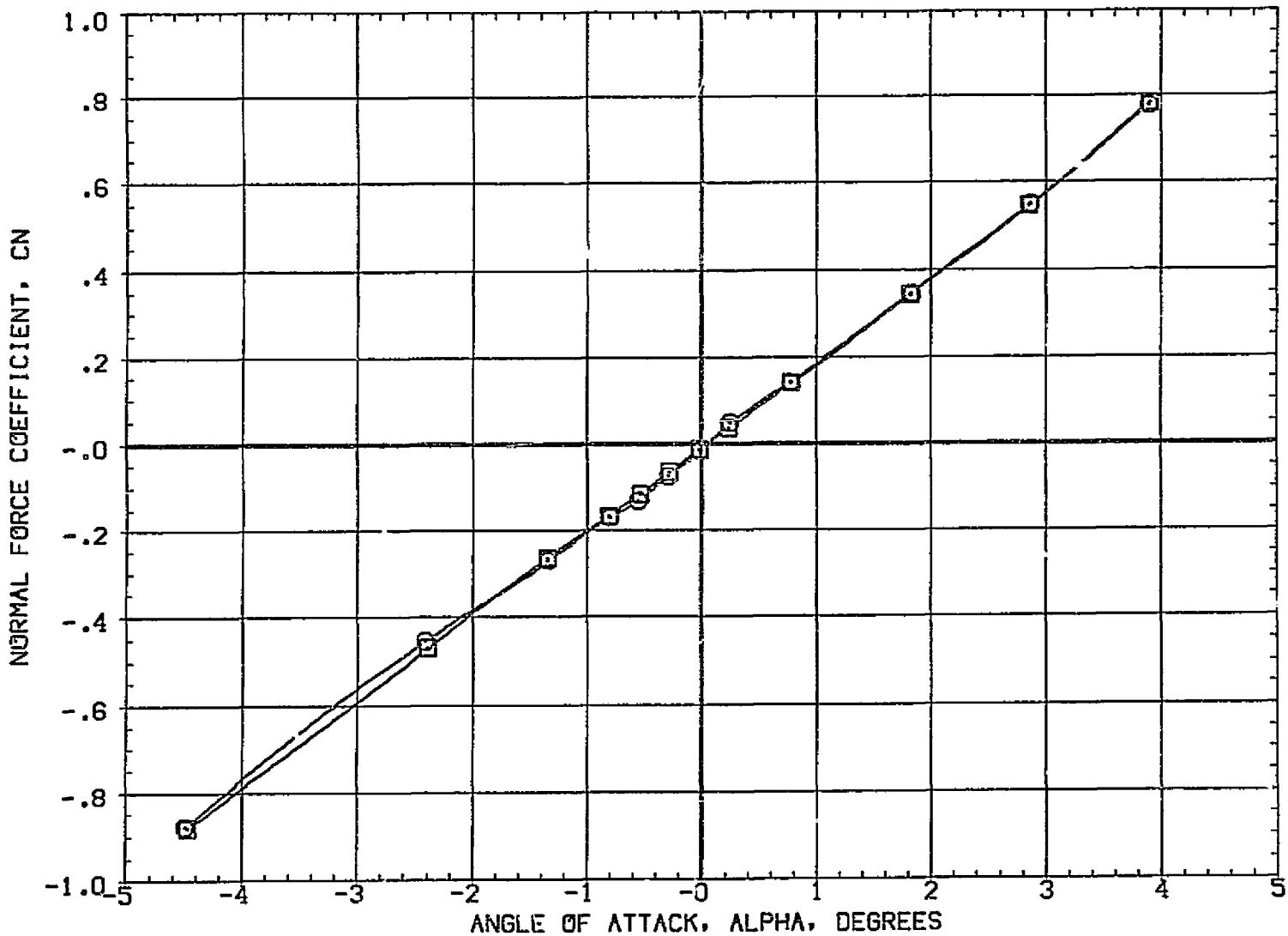
PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (P0J/PF = 130)

(A)MACH = 0.64

PAGE 193

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1019) O DCAT ARC 603/604 B2 F4 C  
 (BX1020) □ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	.000	.000	130.000	SREF	.1100 SQ.FT.
.000	100.000	.000	130.000	LREF	3750 FT.
				BREF	3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



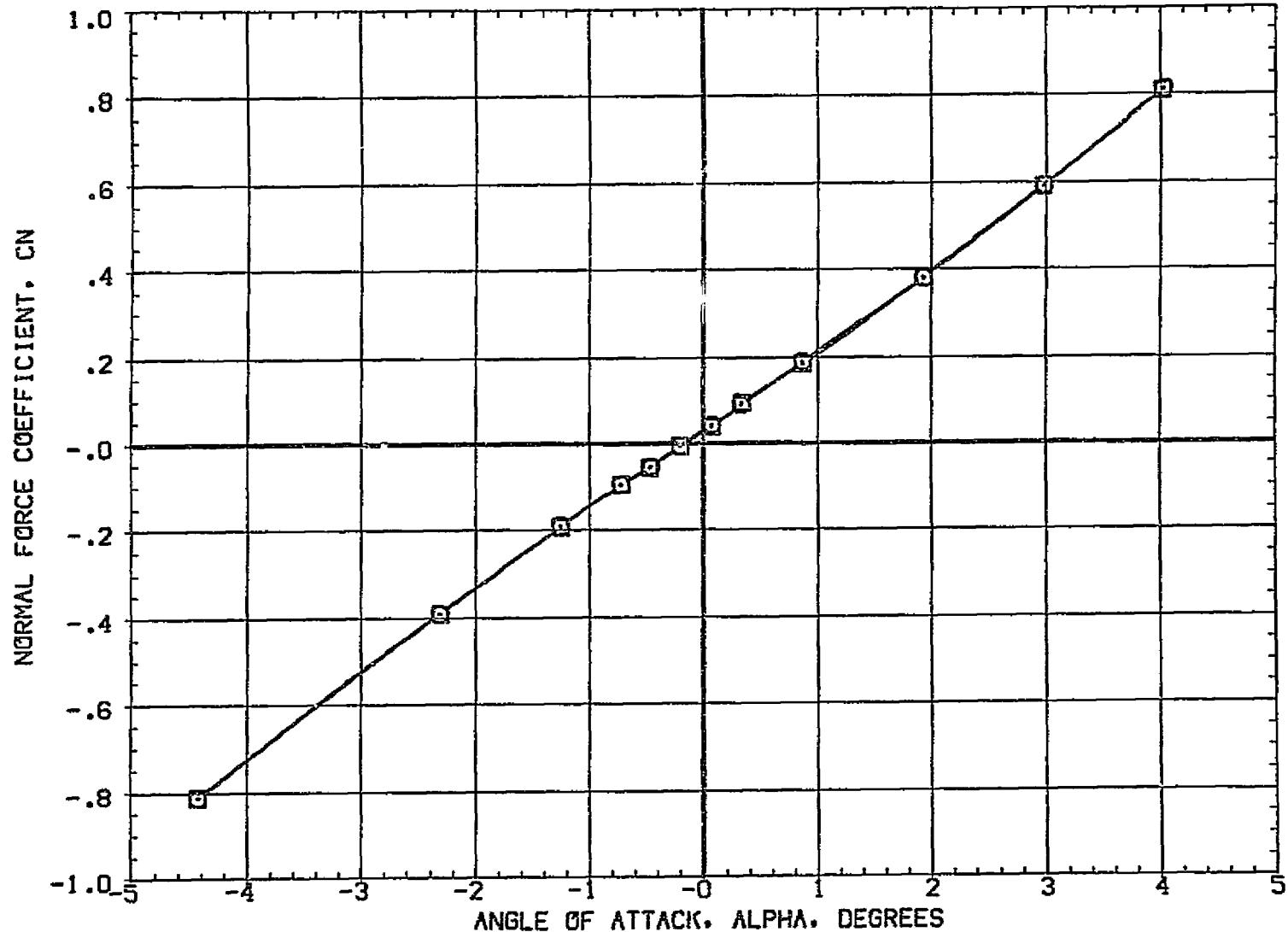
PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (P0J/PF = 130)

(B)MACH = 1.56

PAGE 194

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1019) O DCAT ARC 603/604 B2 F4 C  
 (BX1020) □ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	.000	.000	130.000	SREF	.1100 SQ.FT.
.000	100.000	.000	130.000	LREF	.3750 FT.
				SREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



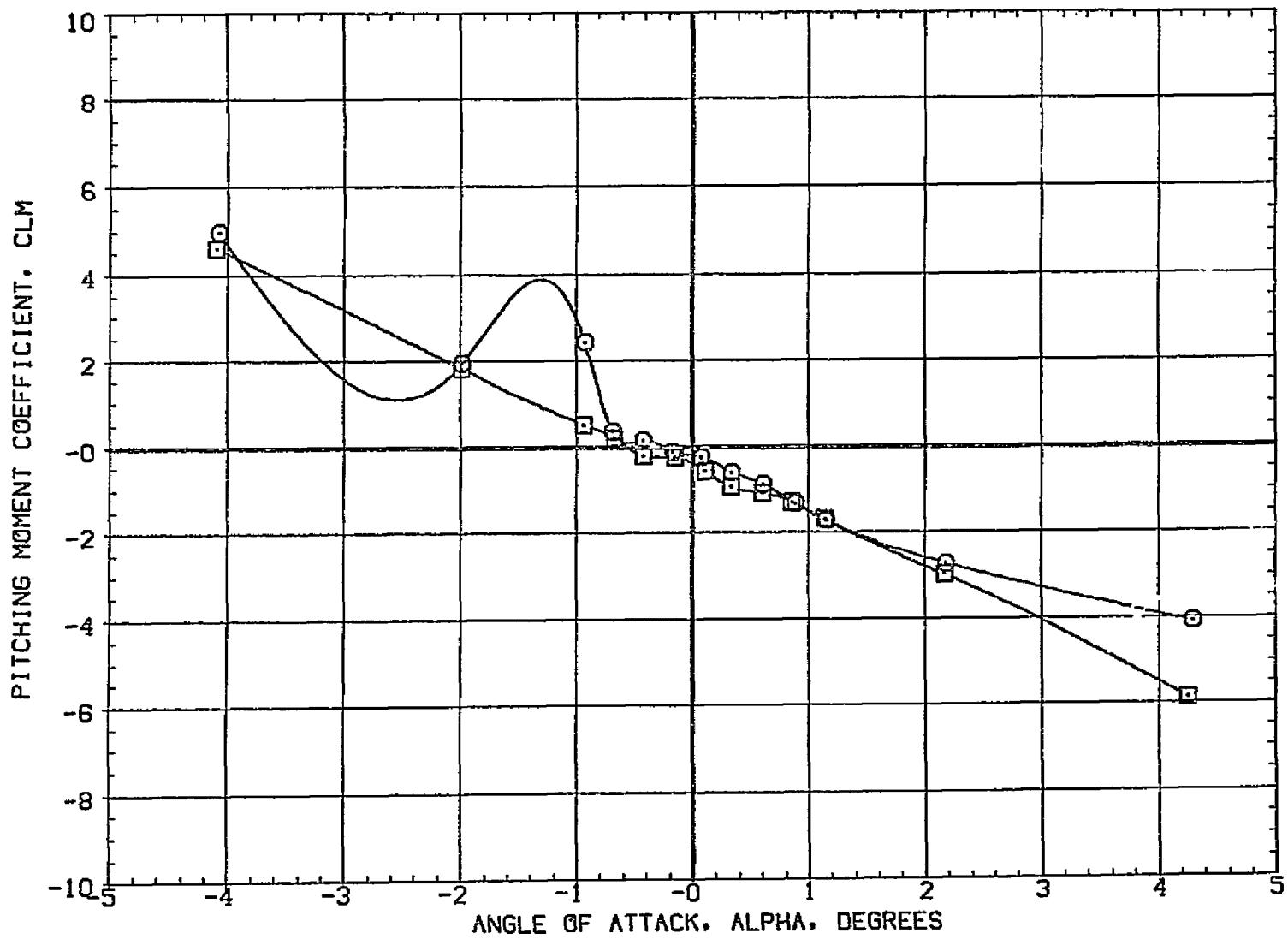
PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (P0J/PF = 130)

(C)MACH = 1.80

PAGE 195

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1019) DCAT ARC 603/604 B2 F4 C  
 (BX1020) DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
:000	:000	:000	130.000	SREF	.1100 SQ.FT.
:000	100.000	:000	130.000	LREF	.3750 FT.
				EREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (P0J/PF = 130)

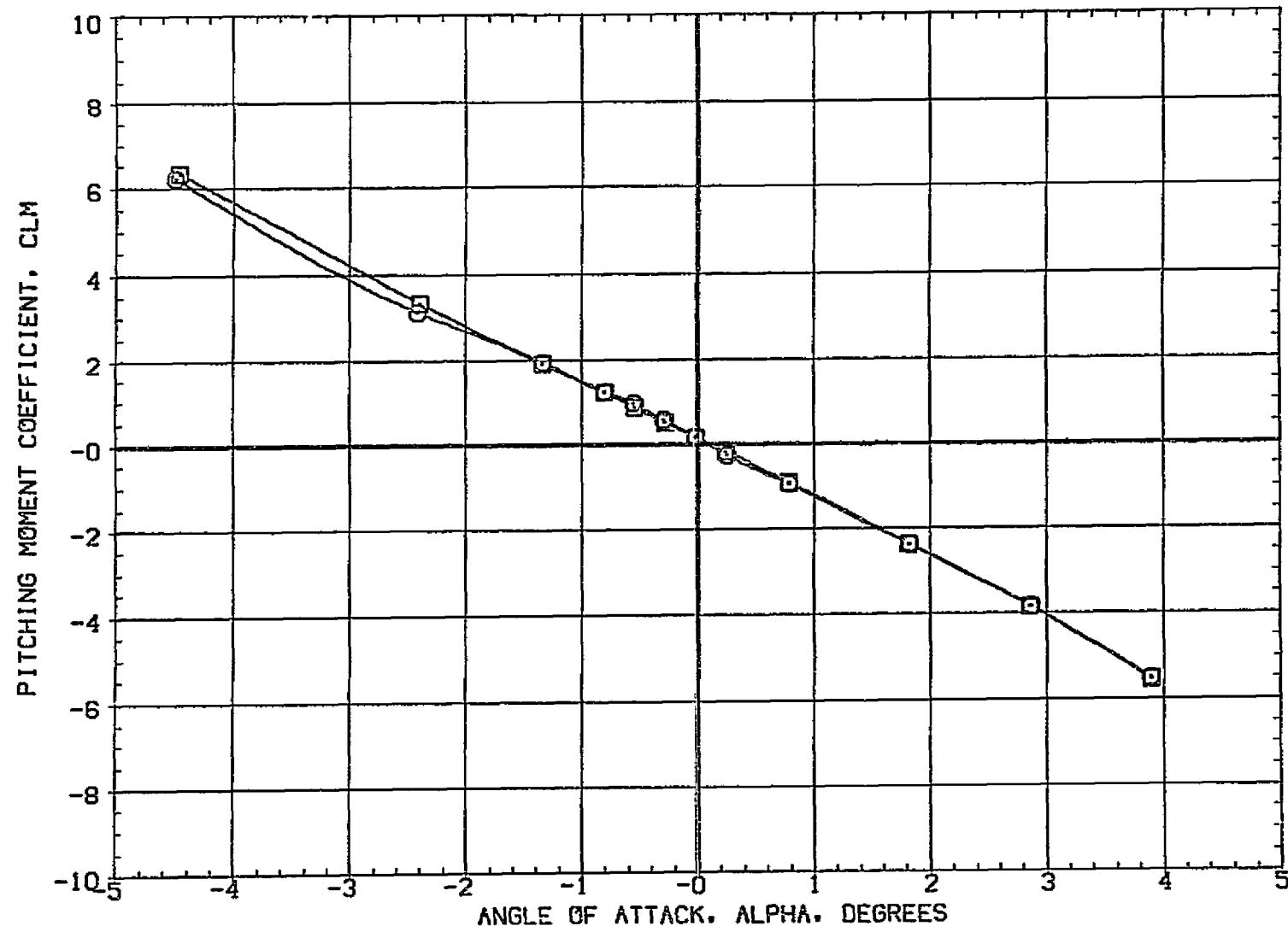
V<sub>AIR MACH</sub> = 0.64

PAGE 196

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1019) O DCAT ARC 603/604 B2 F4 C  
 (BX1020) □ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	.000	.000	130.000	SREF	.1100 SO.FT.
.000	100.000	.000	130.000	LREF	.3750 FT.
				BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

>0222



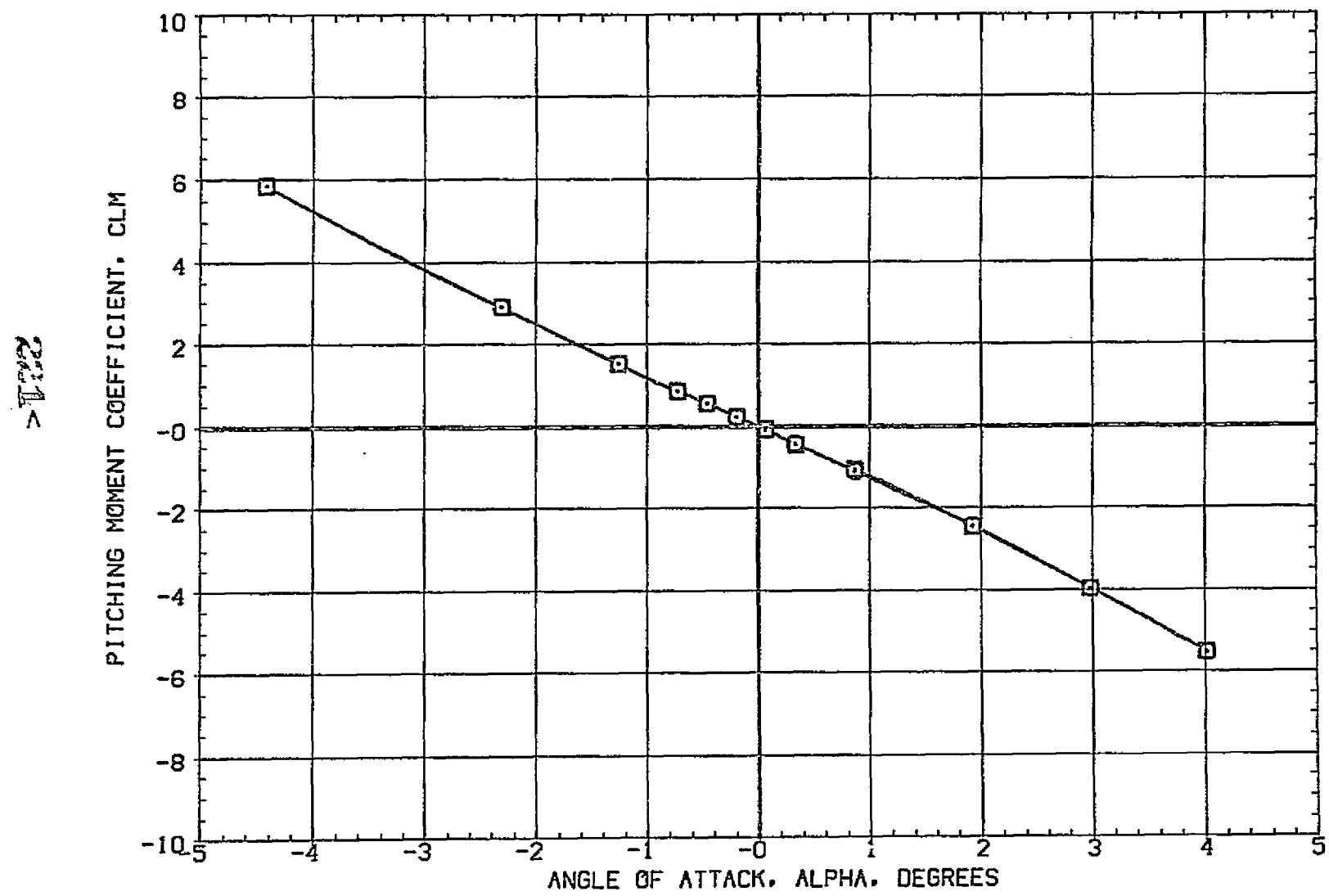
PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (P0J/PF = 130)

(B)MACH = 1.56

PAGE 197

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1019) O DCAT ARC 603/604 B2 F4 C  
 (BX1020) □ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE INFORMATION
.000	.000	.000	130.000	SREF .1100 SQ.FT.
.000	100.000	.000	130.000	LREF .3750 FT.
				BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



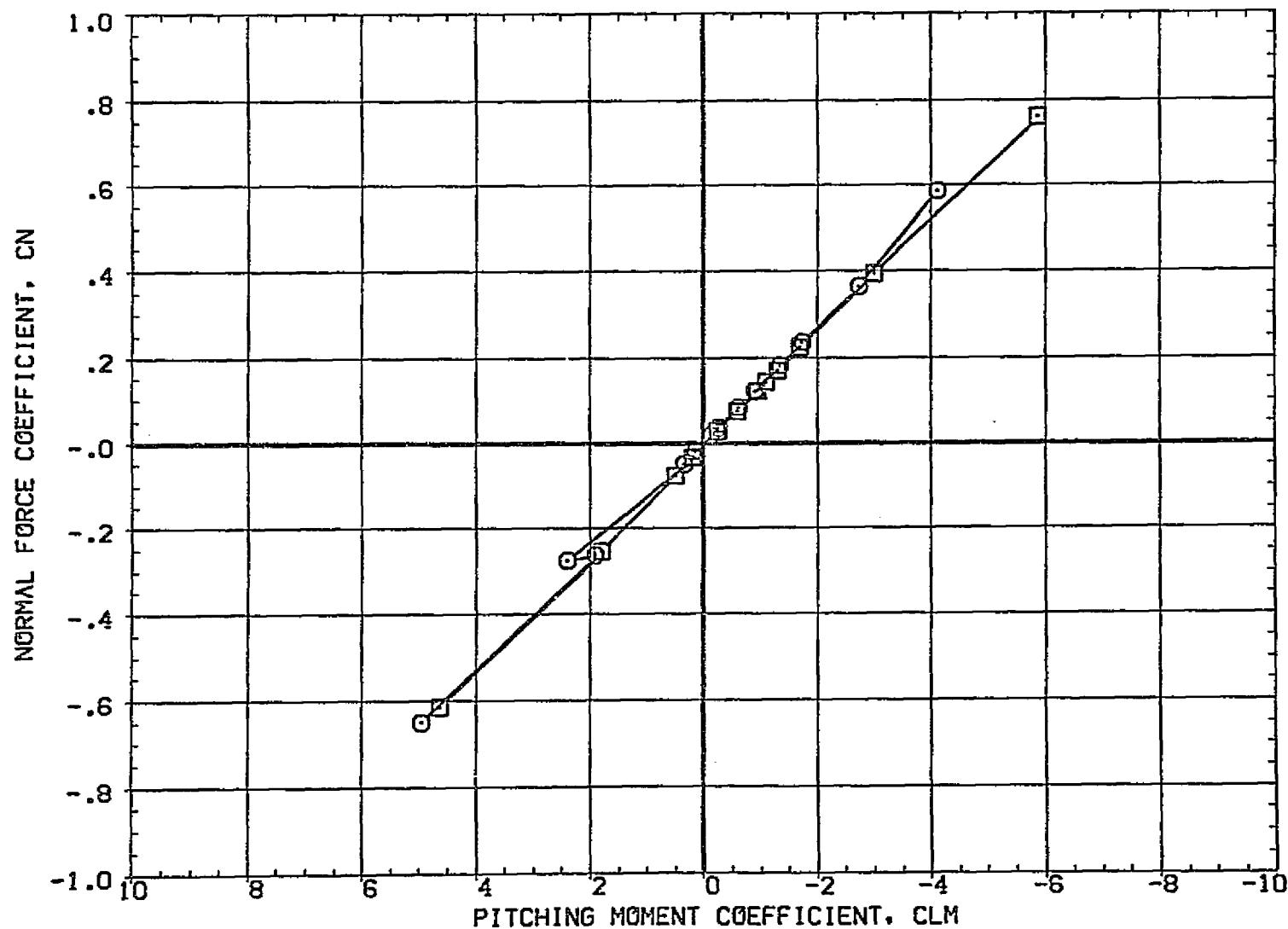
PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (P0J/PF = 130)

SCIMACH = 1.80

PAGE 198

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
(BX1019) D CAT ARC 603/604 B2 F4 C  
(BX1020) D CAT ARC 603/604 B2 F4 C

BETA P-MOD Y-MOD P0J/PF REFERENCE INFORMATION  
.000 .000 .000 130.000 SREF .1100 SQ.FT.  
.000 100.000 .000 130.000 LREF .3750 FT.  
BREF .3750 FT.  
XMRP .0000 FT.  
YMRP .0000 FT.  
ZMRP .0000 FT.  
SCALE 125.0000 PERCENT



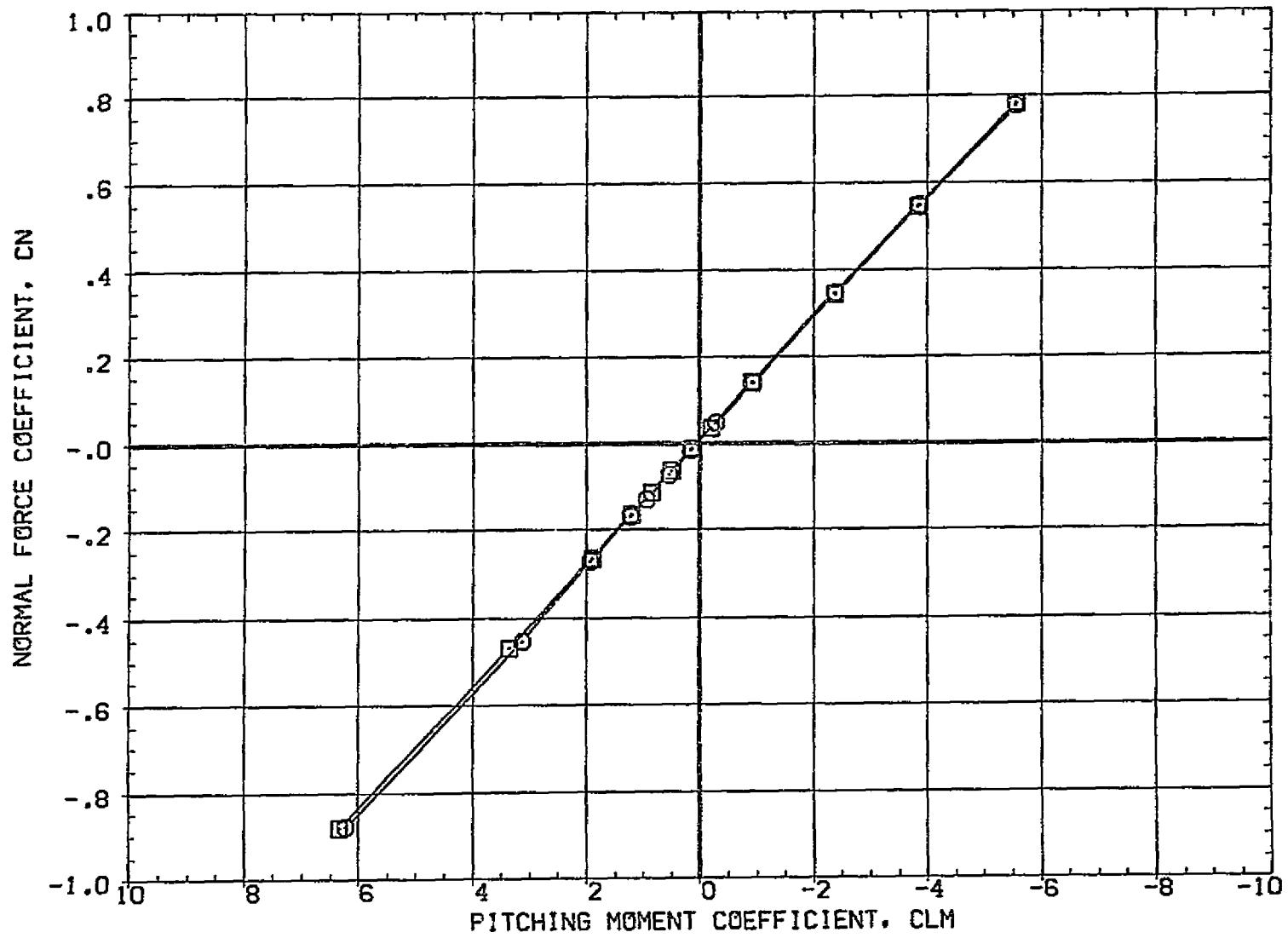
PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (P0J/PF = 130)

(A)MACH = 0.64

PAGE 199

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
(BX1019)  DCAT ARC 603/604 82 F4 C  
(BX1020)  DCAT ARC 603/604 82 F4 C

BETA P-MOD Y-MOD POJ/PF REFERENCE INFORMATION  
.000 .000 .000 130.000 SREF .1100 SQ.FT.  
.000 100.000 .000 130.000 LREF .3750 FT.  
BREF .3750 FT.  
XMRP .0000 FT.  
YMRP .0000 FT.  
ZMRP .0000 FT.  
SCALE 125.0000 PERCENT

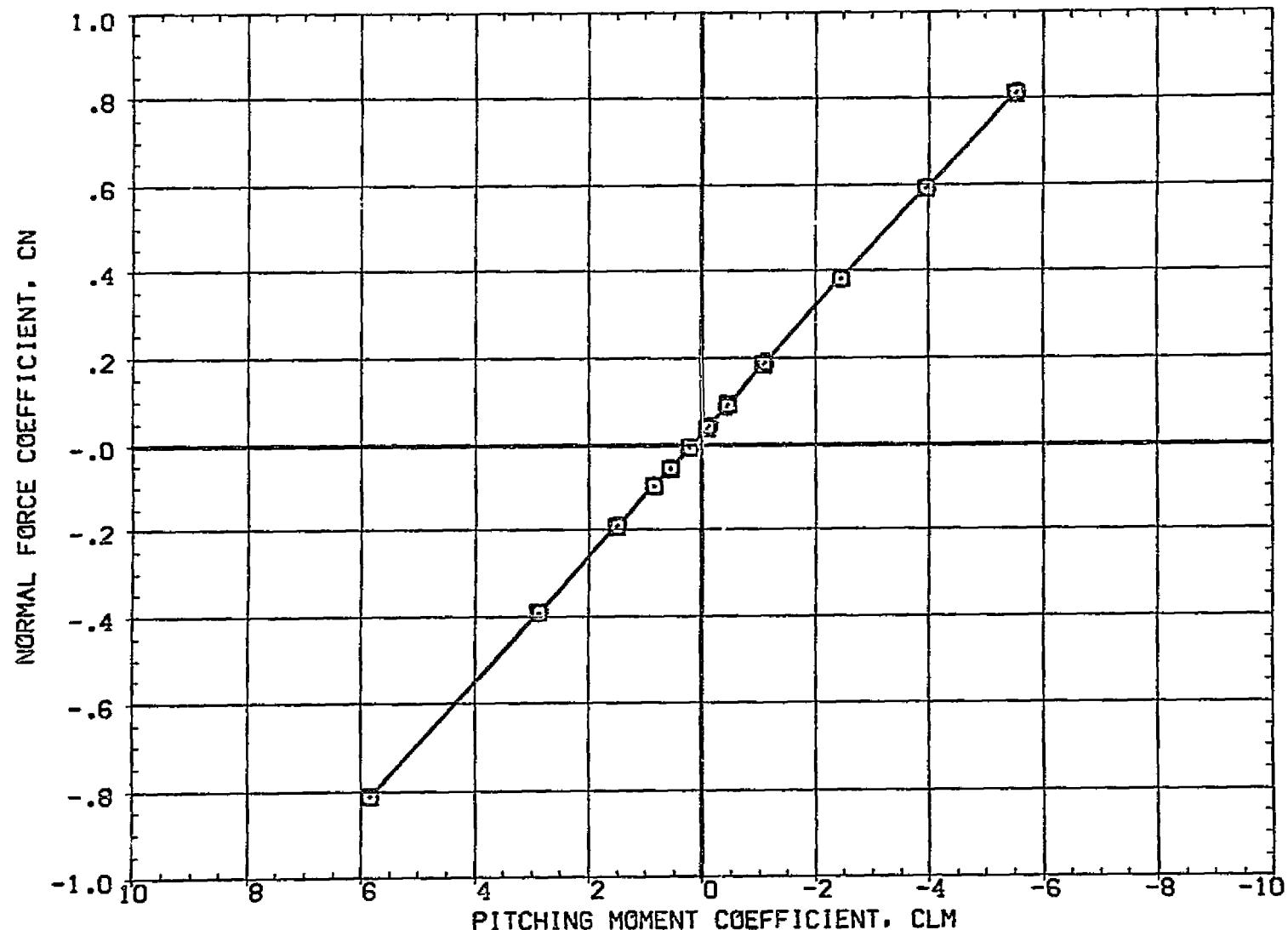


PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1019) O DCAT ARC 603/604 B2 F4 C  
 (BX1020) □ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE INFORMATION
.000	.000	.000	130.000	SREF .1100 SQ.FT.
.000	100.000	.000	130.000	LREF .3750 FT.
				BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT

> 5292



PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (P0J/PF = 130)

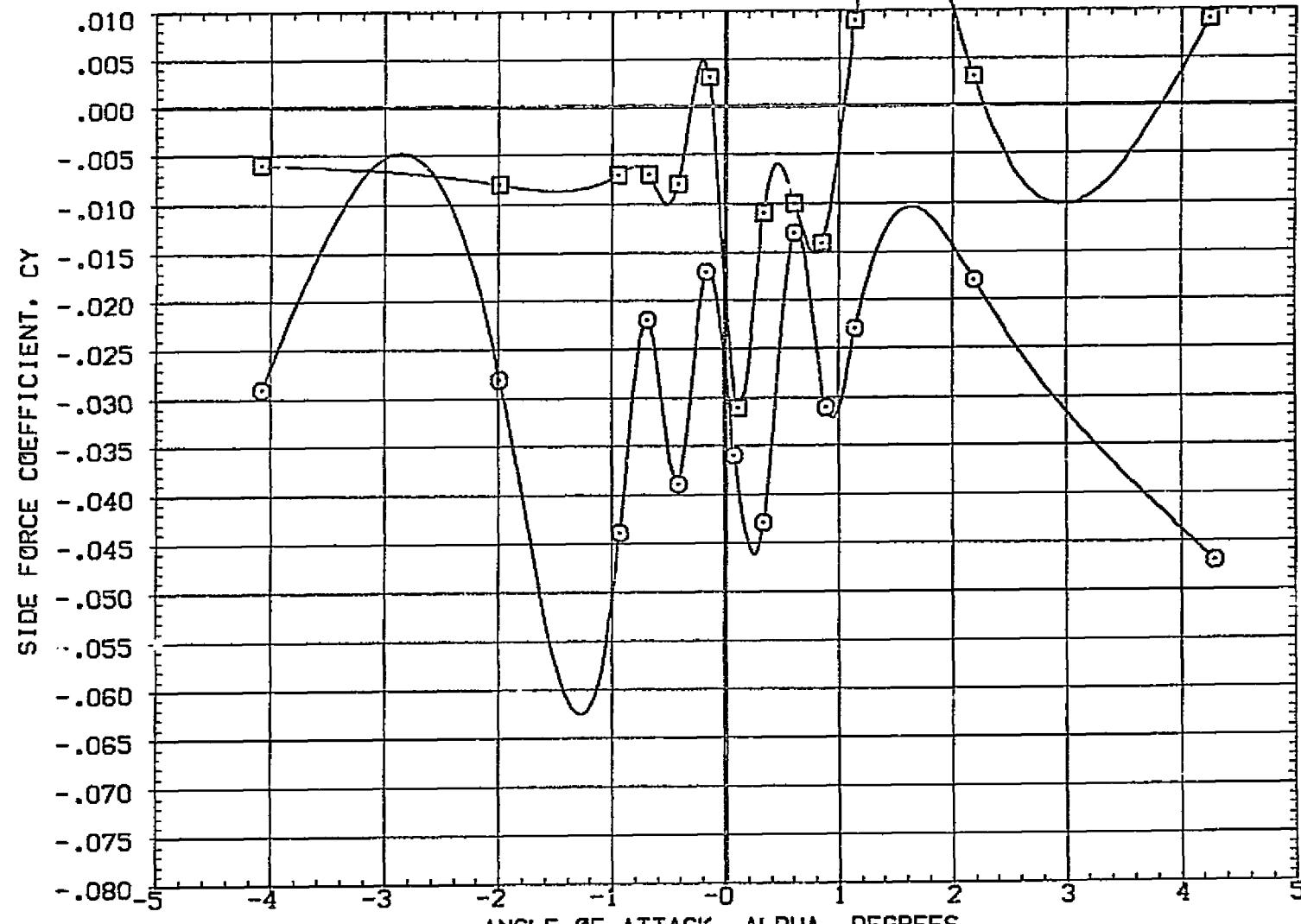
(C)MACH = 1.80

PAGE 201

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
(BX1019) O DCAT ARC 603/604 B2 F4 C  
(BX1020) □ DCAT ARC 603/604 B2 F4 C

BETA P-MOD Y-MOD P0J/PF REFERENCE INFORMATION  
.000 .000 .000 130.000 CREF .1100 SQ.FT.  
.000 100.000 .000 130.000 LREF .3750 FT.  
BREF .3750 FT.  
XMRP .0000 FT.  
YMRP .0000 FT.  
ZMRP .0000 FT.  
SCALE 125.0000 PERCNT

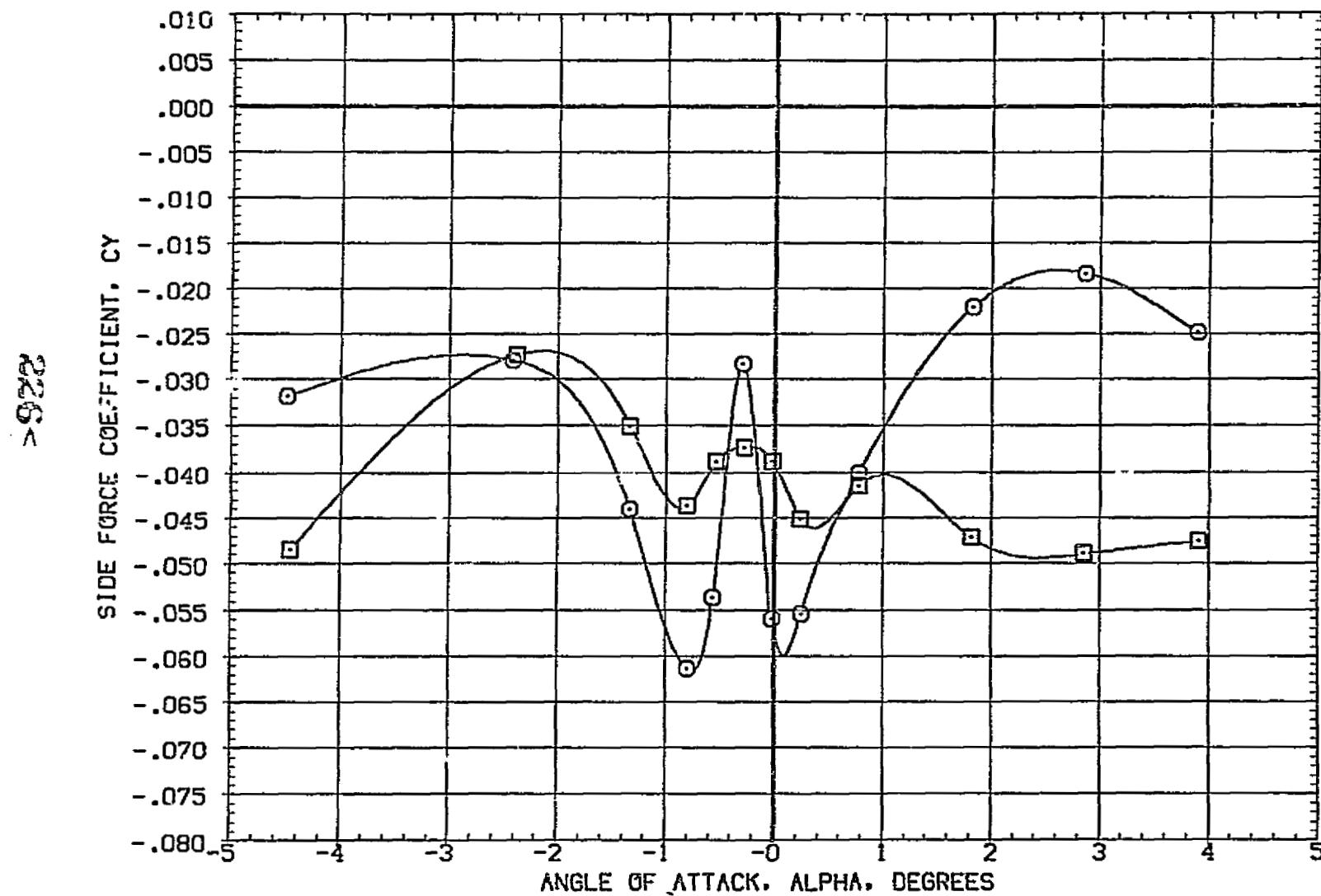
> Q322



PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (P0J/PF = 130)

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1019) O DCAT ARC 603/604 B2 F4 C  
 (BX1020) □ DCAT ARC 603/604 B2 F4 C

BETA	P-H00	Y-H00	P0J/PF	REFERENCE INFORMATION
.000	.000	.000	130.000	SREF .1100 SQ.FT.
.000	100.000	.000	130.000	LREF 3750 FT.
				BREF 3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



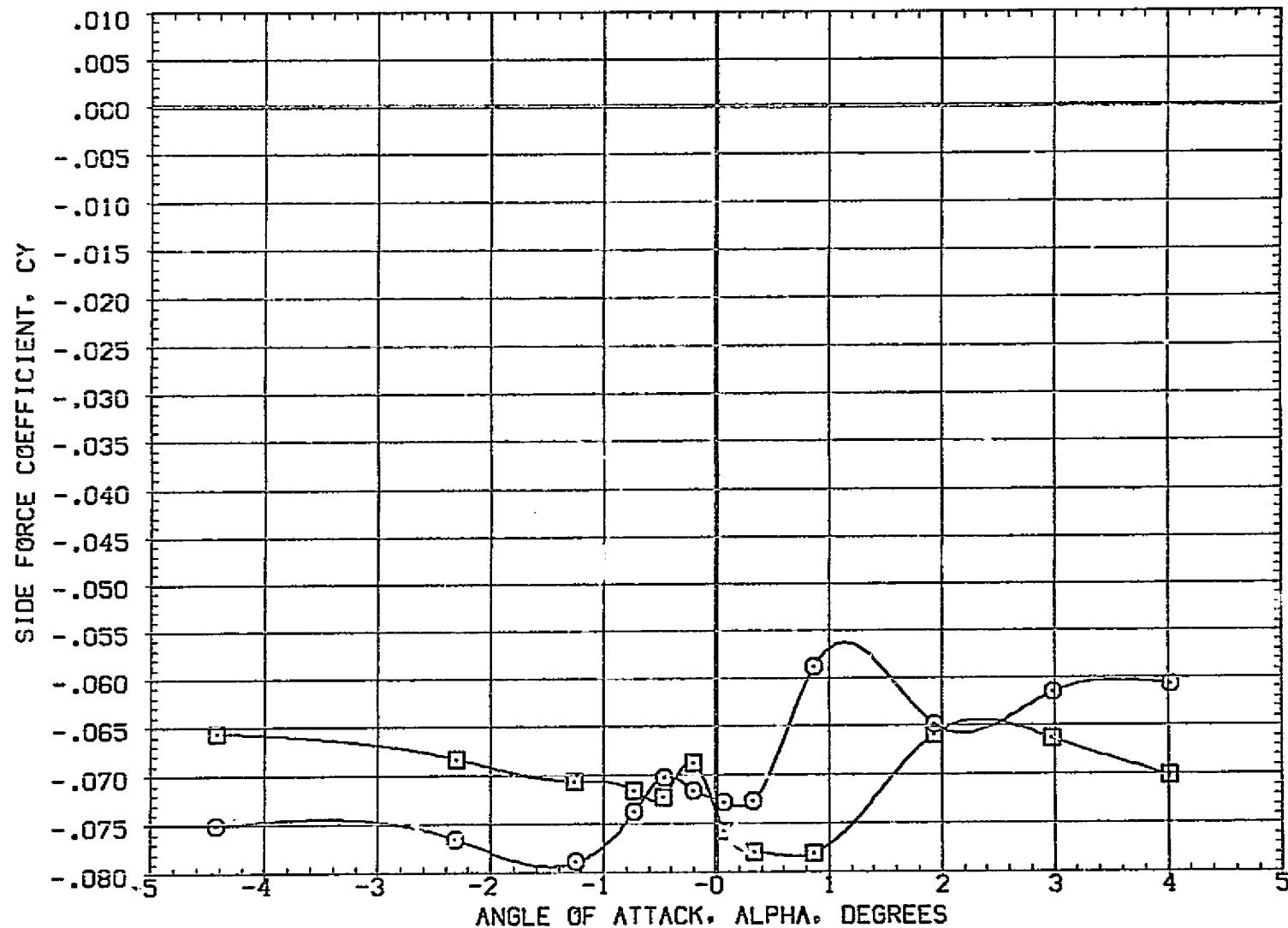
PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO ( $P0J/PF = 130$ )

(B)MACH = 1.56

PAGE 203

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
(BX1019) O DCAT ARC 603/604 B2 F4 C  
(BX1020) □ DCAT ARC 603/604 B2 F4 C

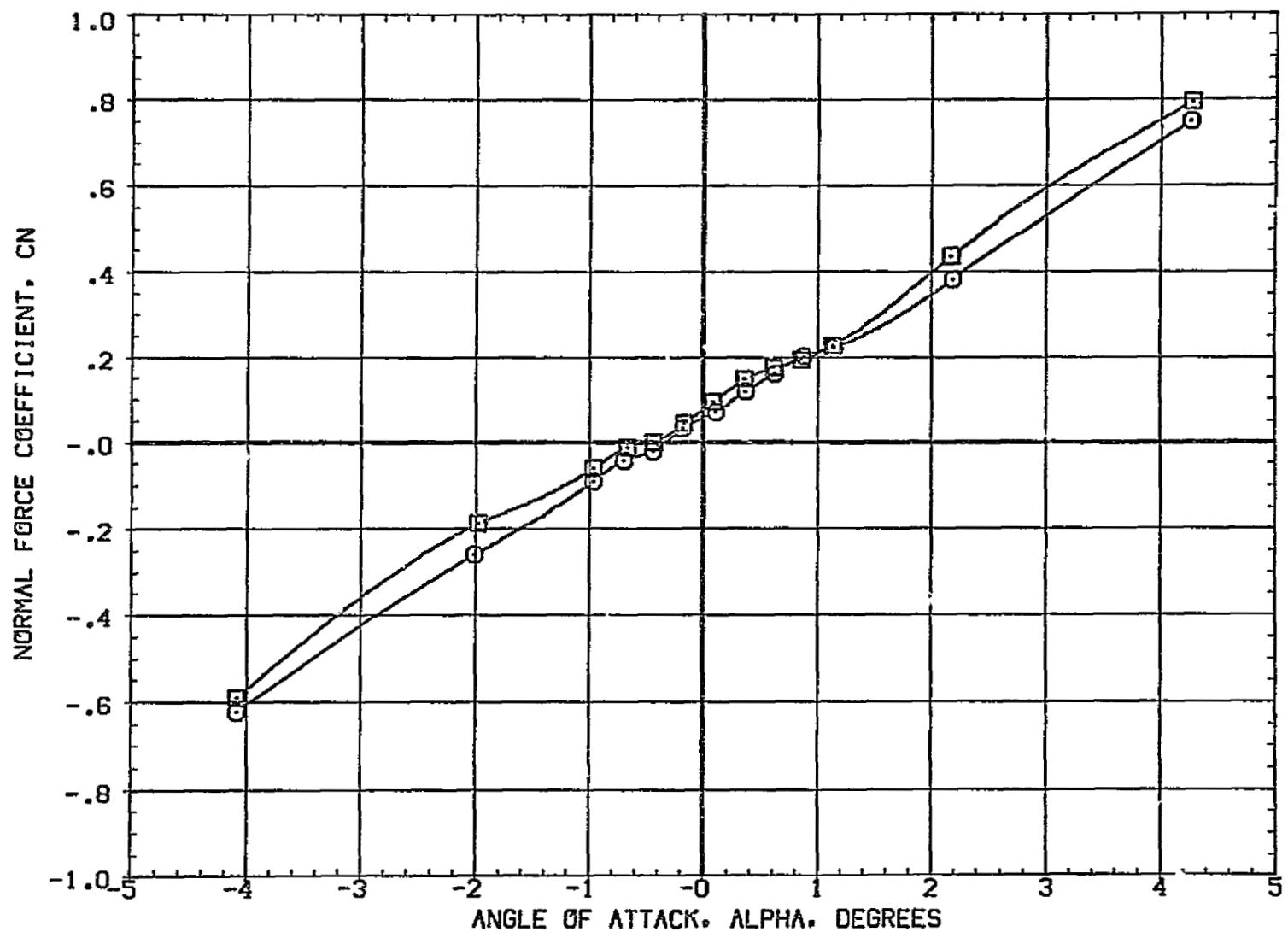
BETA P-MOD Y-MOD P0J/PF REFERENCE INFORMATION  
.000 .000 .000 130.000 SREF .1100 SQ.FT.  
.000 100.000 .000 130.000 LREF .3750 FT.  
BREF .3750 FT.  
XMRP .0000 FT.  
YMRP .0000 FT.  
ZMRP .0000 FT.  
SCALE 125.0000 PERCNT



PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO ( $P_0J/PF = 130$ )

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1022) O DCAT ARC 603/604 B2 F4 C  
 (BX1023) □ DCAT ARC 603/604 B2 F4 C

BETA	P-M00	Y-M00	P0J/PF	REFERENCE	INFORMATION
.000	.000	100.000	170.000	SREF	.1100 SQ.FT.
.000	100.000	100.000	130.000	LREF	.3750 FT.
				BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



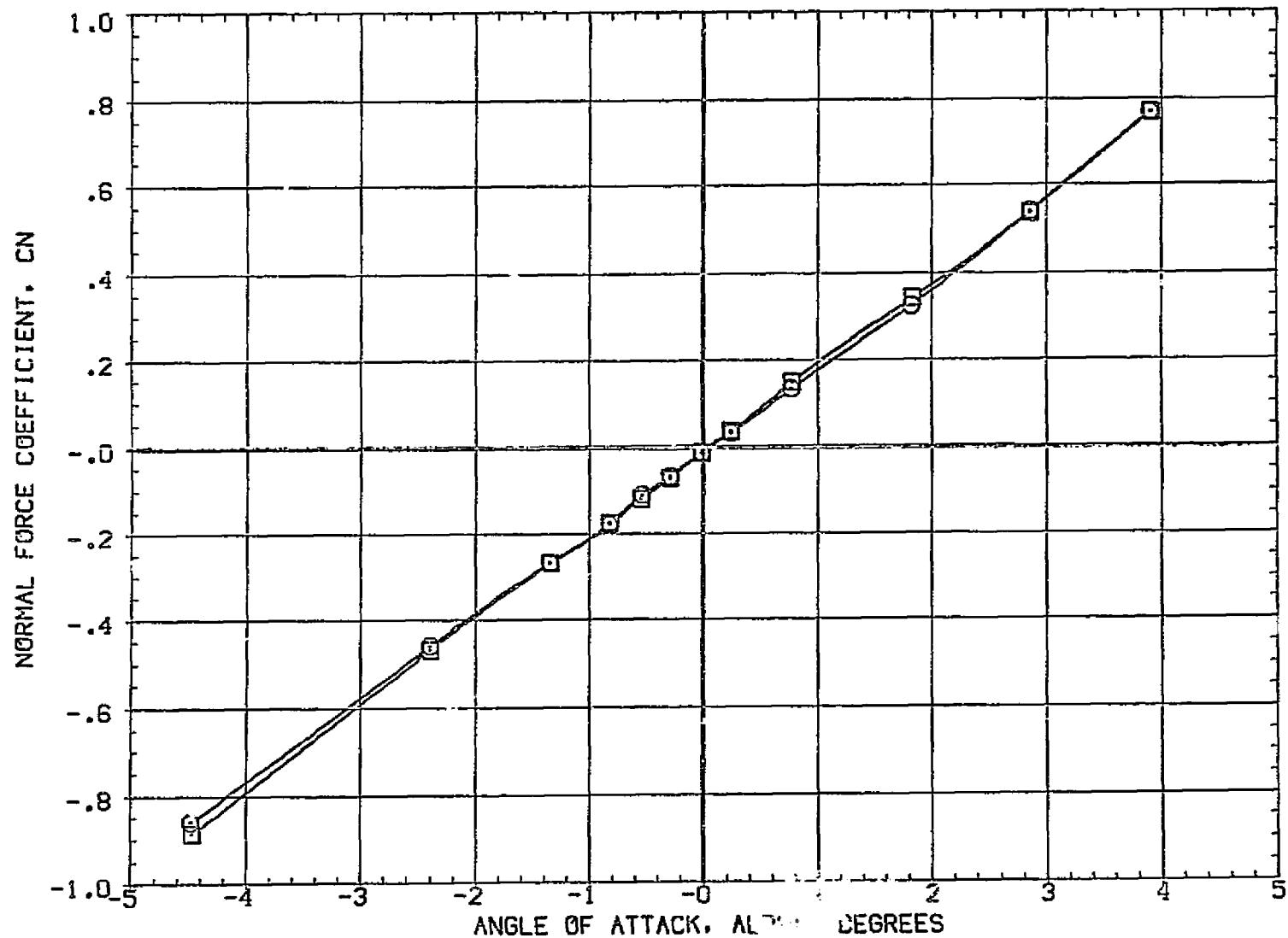
YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (P0J/PF = 130)

CAFMACH = 0.64

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1022) O DCAT ARC 603/603 B2 F4 C  
 (BX1023) □ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE INFORMATION
.000	.000	100.000	130.000	SREF .1100 SQ.FT.
.000	100.000	100.000	130.000	LREF .3750 FT.
				BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT

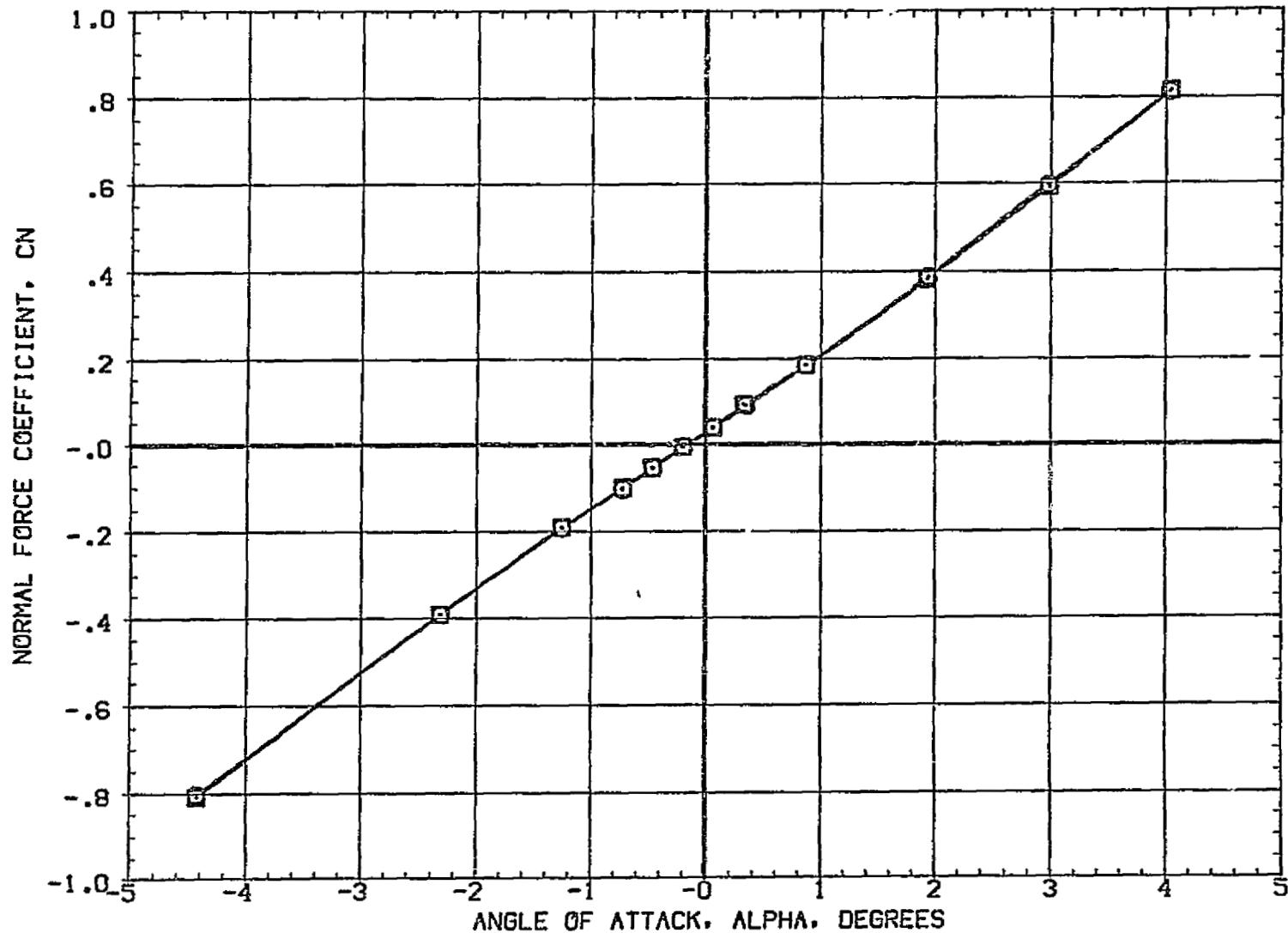


YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (P0J/PF = 130)

(B)MACH = 1.56

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1022) DCAT ARC 603/604 B2 F4 C  
 (BX1023) DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE INFORMATION
:000	:000	100,000	130,000	SREF :1100 SQ.FT.
:000	100,000	100,000	130,000	LREF :3750 FT.
				BREF :3750 FT.
				XMRP :0000 FT.
				YMRP :0000 FT.
				ZMRP :0000 FT.
				SCALE 125,0000 PERCENT



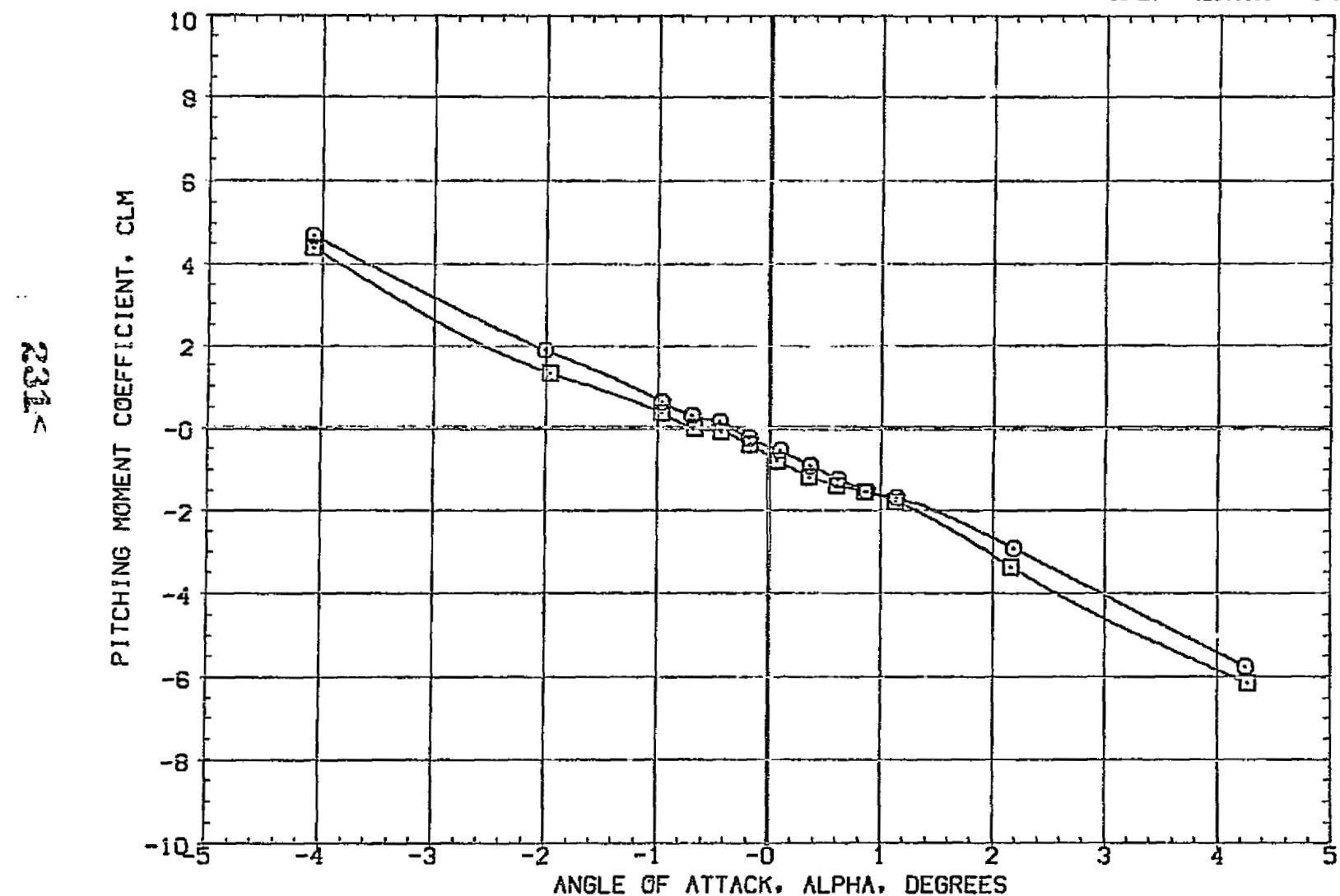
YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (P0J/PF = 130)

(C)MACH = 1.80

PAGE 207

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1022) DCAT ARC 603/604 B2 F4 C  
 (BX1023) DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE INFORMATION
:000	:000	100.000	130.000	SREF .1100 SQ.FT.
:000	100.000	100.000	130.000	LREF .3750 FT.
				BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



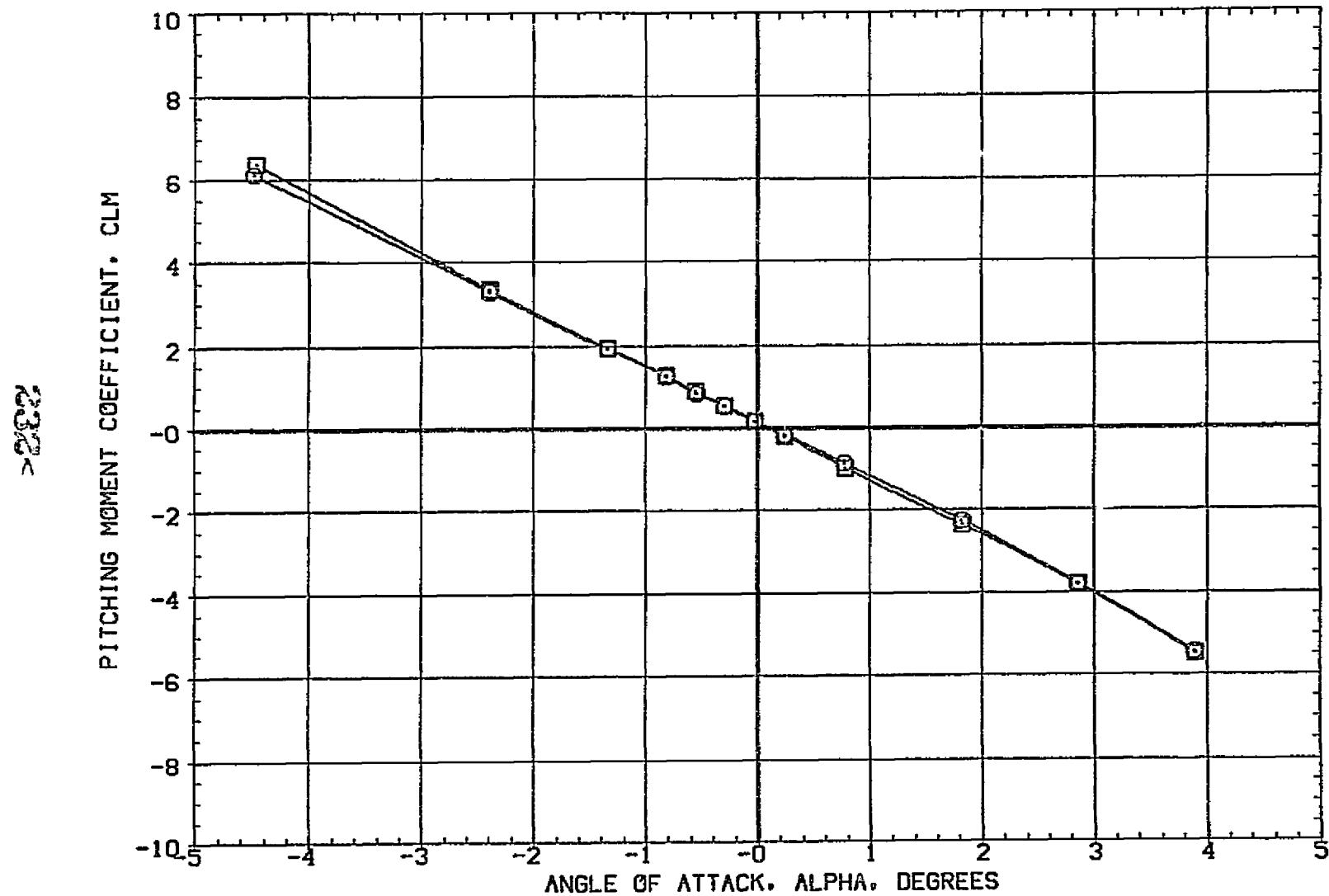
YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (P0J/PF = 130)

MACH = 0.64

PAGE 208

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1022) O DCAT ARC 603/604 B2 F4 C  
 (BX1023) □ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE INFORMATION
.000	.000	100,000	130,000	SREF .1100 SQ.FT.
.000	100,000	100,000	130,000	LREF .3750 FT.
				BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



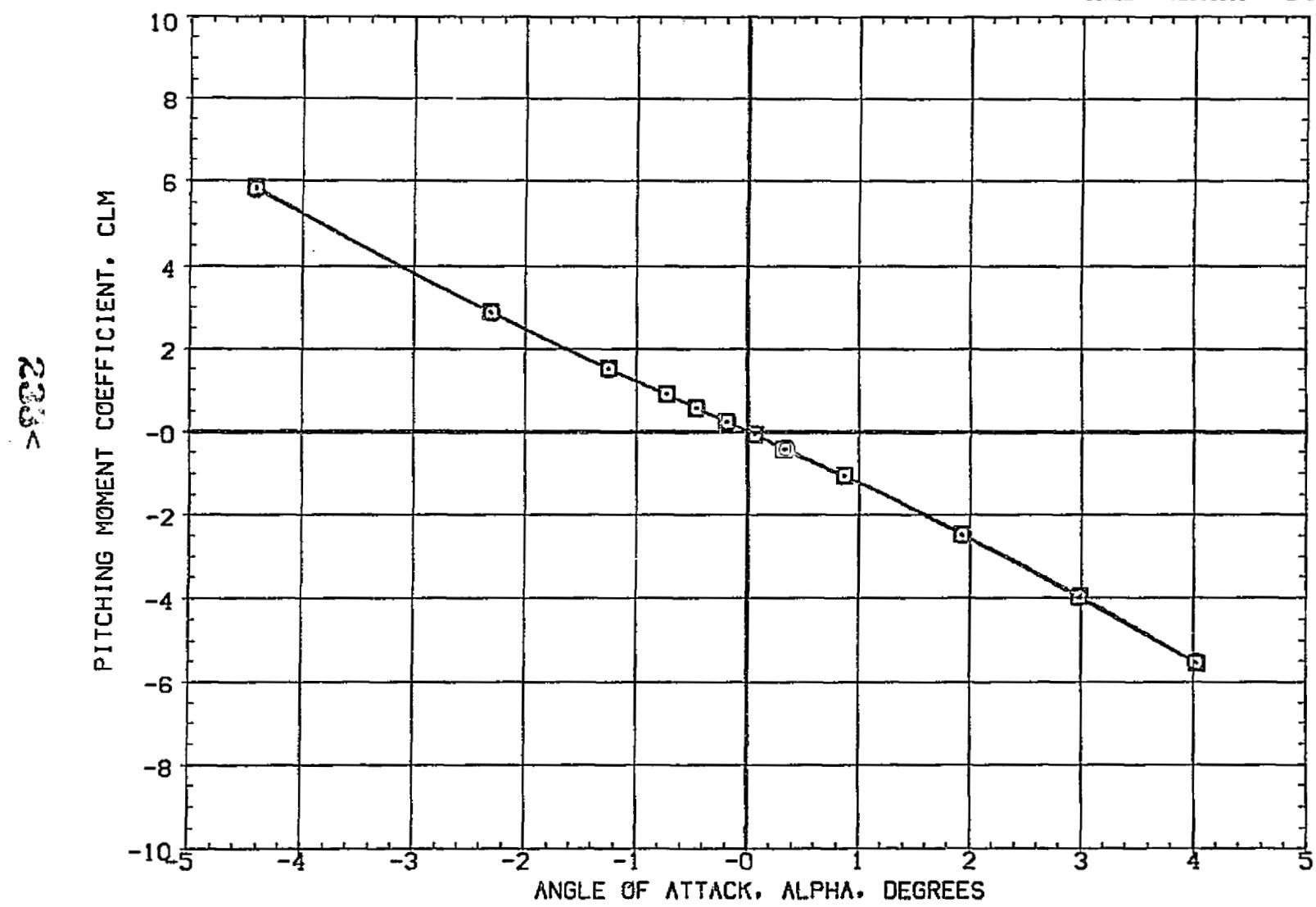
YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (P0J/PF = 130)

(B)MACH = 1.56

PAGE 209

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1022) O DCAT ARC 603/604 B2 F4 C  
 (BX1023) O DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
:000	:000	100.000	130.000	SREF	.1160 SQ.FT.
:000	100.000	100.000	130.000	LREF	.3750 FT.
				BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (P0J/PF = 130)

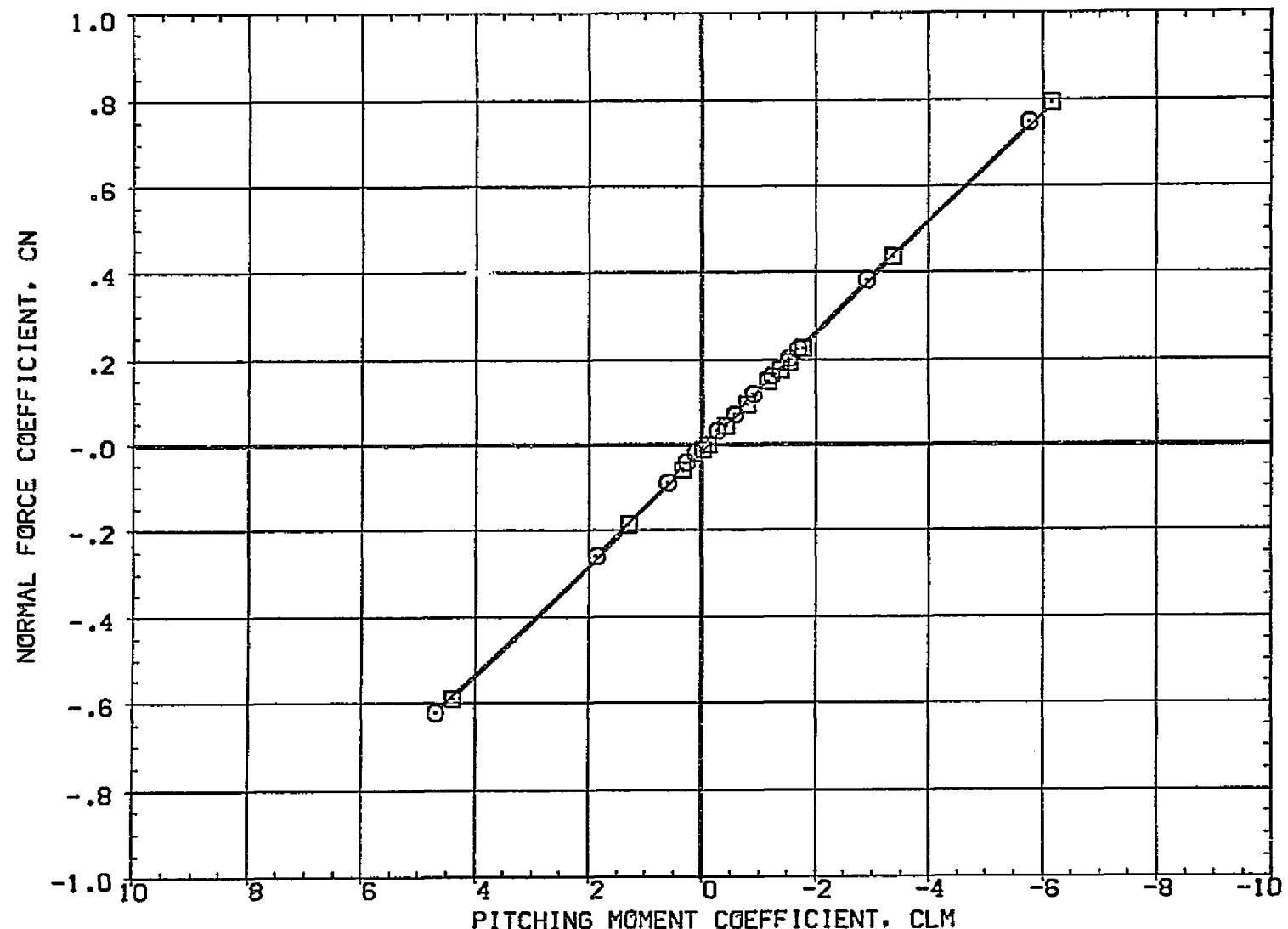
MACH = 1.80

PAGE 210

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1022) O DCAT ARC 603/604 B2 F4 C  
 (BX1023) □ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE INFORMATION
.000	.000	100.000	130.000	SREF .1100 SO.FT.
.000	100.000	100.000	130.000	LREF .3750 FT.
				BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCNT

>50%



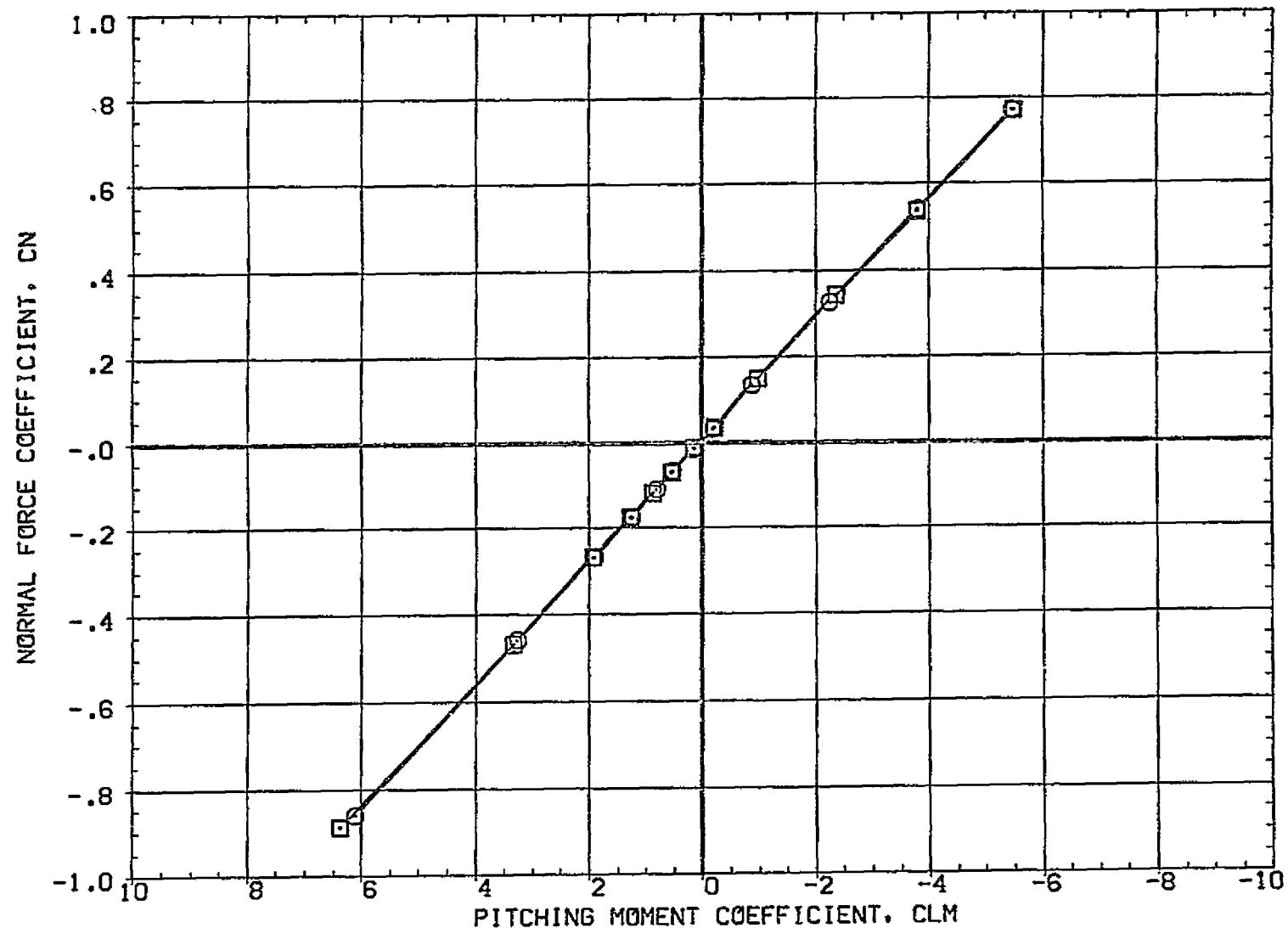
YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (P0J/PF = 130)

CADMACH = 0.64

PAGE 211

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1022)  DCAT ARC 603/604 B2 F4 C  
 (BX1023)  DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
:000	:000	100,000	130,000	SREF .1100 SQ.FT.
:000	100,000	100,000	130,000	LREF .3750 FT.
				BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT

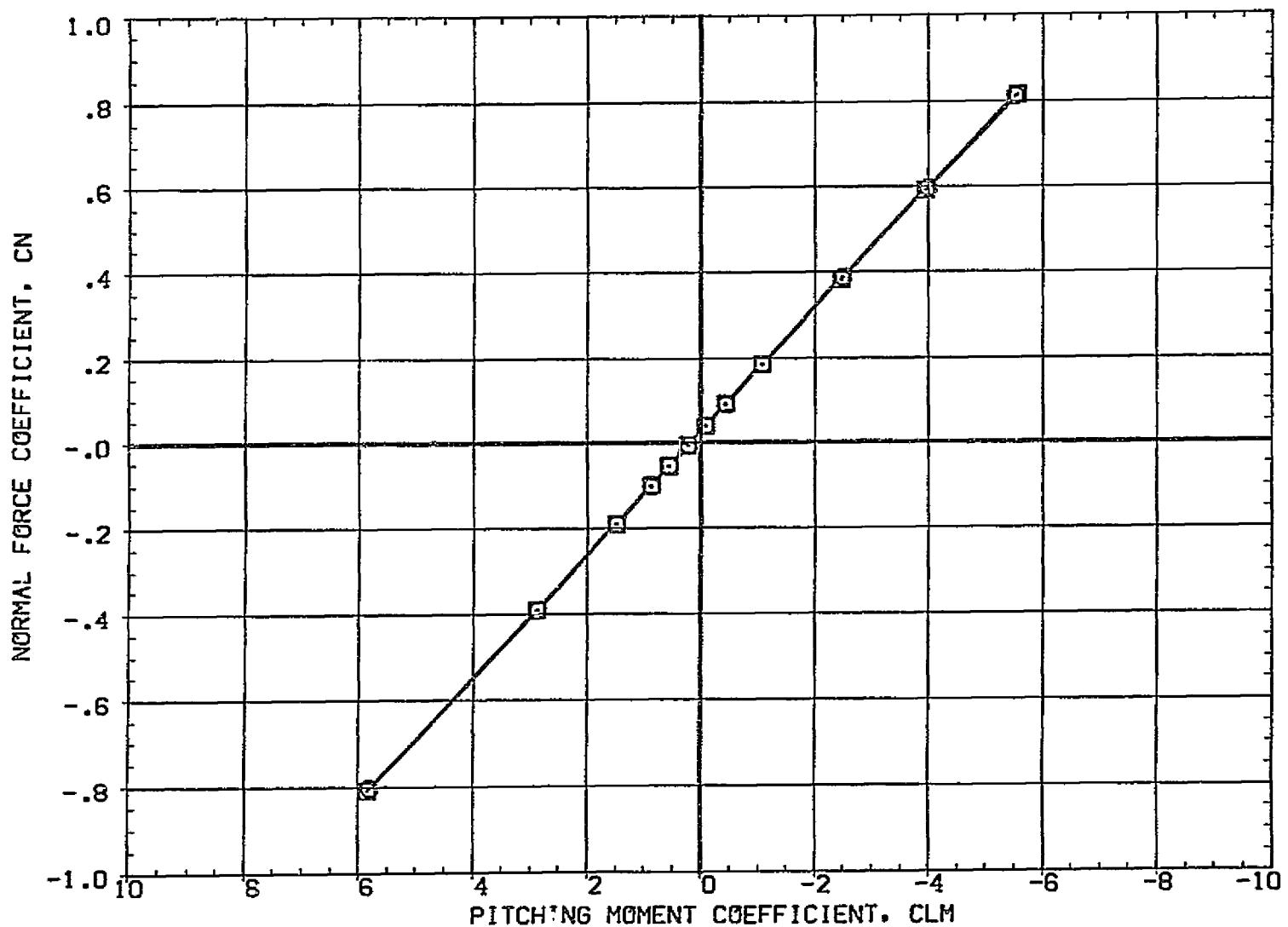


YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1022) DCAT ARC 603/604 B2 F4 C  
 (BX1023) DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	.000	100.000	130.000	SREF	.1100 SQ.FT.
.000	100.000	100.000	130.000	LREF	.3750 FT.
				BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

1302



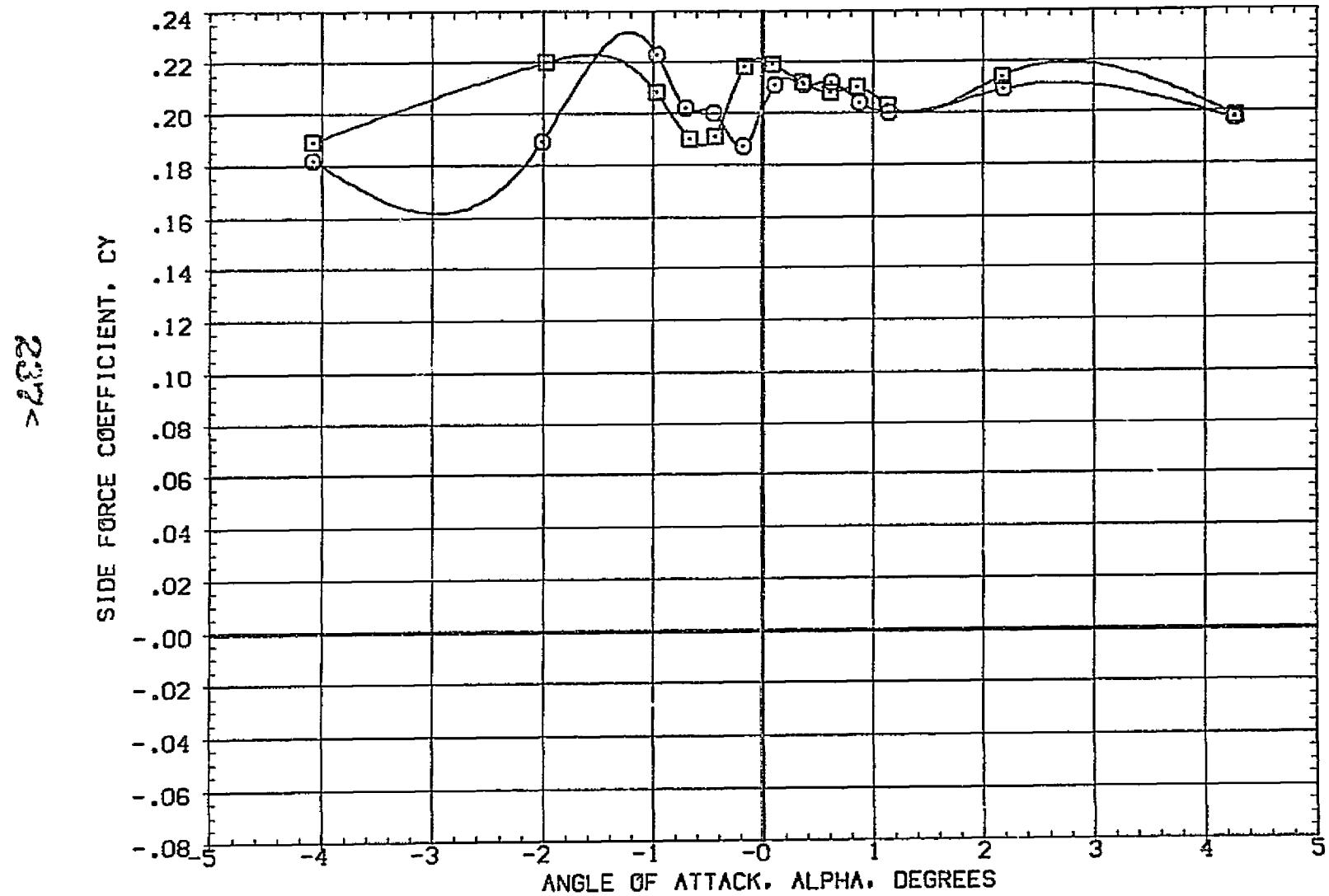
YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (P0J/PF = 130)

(C)MACH = 1.80

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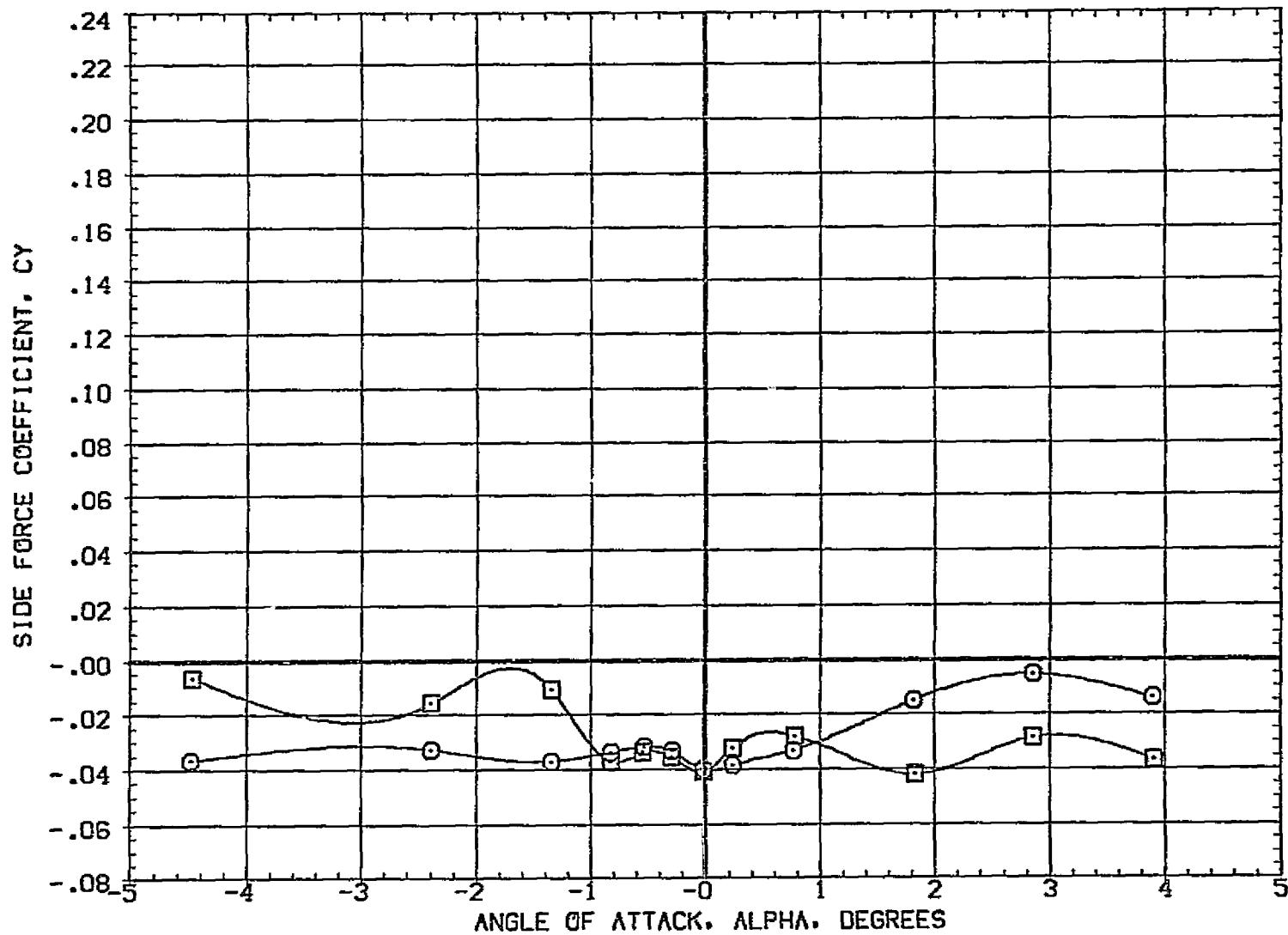
DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1022) DCAT ARC 603/604 B2 F4 C  
 (BX1023) DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE INFORMATION
.000	.000	100.000	130.000	SREF .1100 SQ.FT.
.000	100.000	100.000	130.000	LREF .3750 FT.
				BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1022)  DCAT ARC 603/604 B2 F4 C  
 (BX1023)  DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	100.000	130.000	SREF .1100 SQ.FT.
				LREF .3750 FT.
				BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

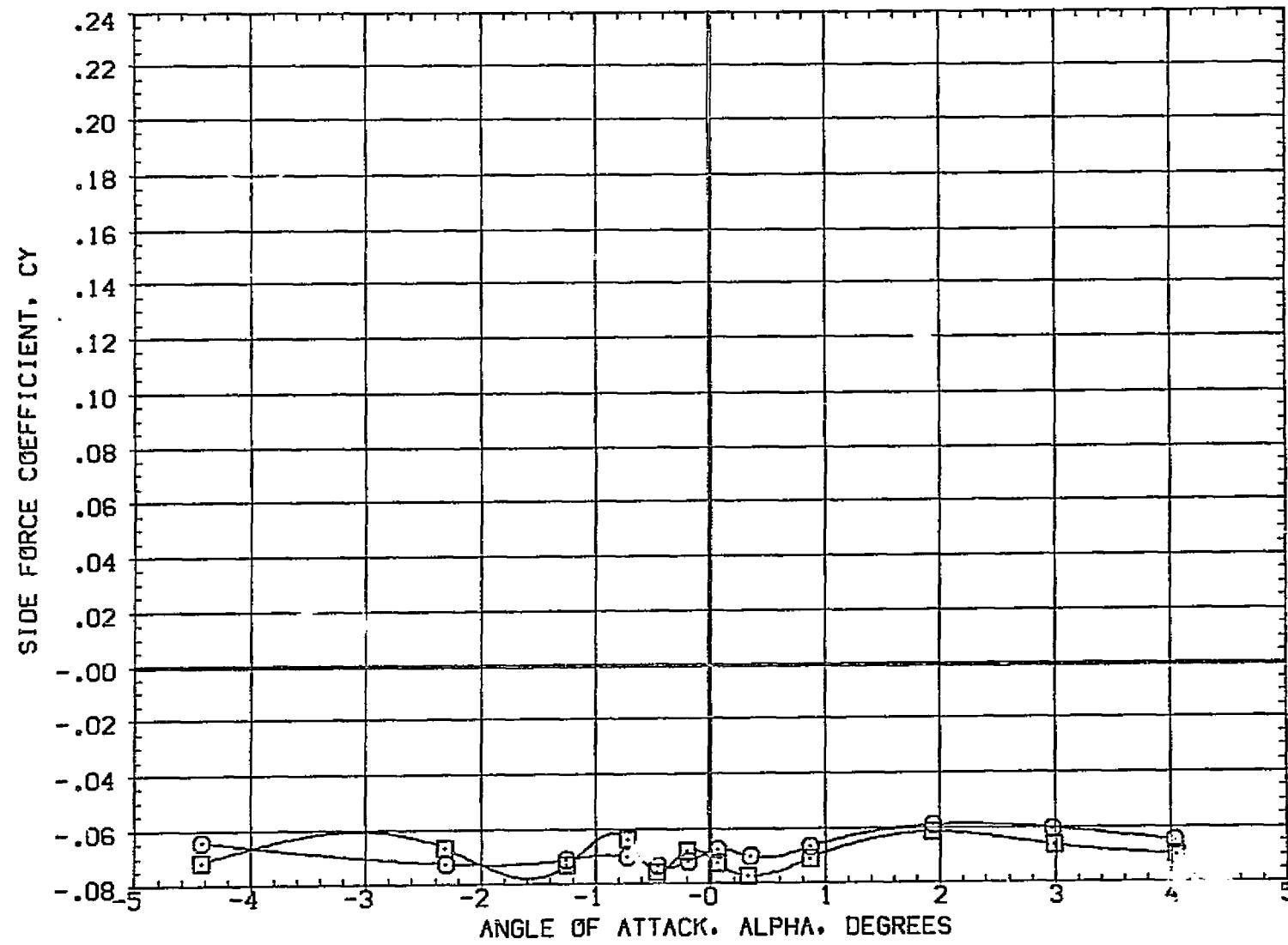
(B)MACH = 1.56

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1022) O DCAT ARC 603/604 B2 F4 C  
 (BX1023) □ DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	100.000	100.000	130.000	SREF .1100 SQ.FT.
.000	100.000	100.000	130.000	LREF .3750 FT.
				BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCNT

>632



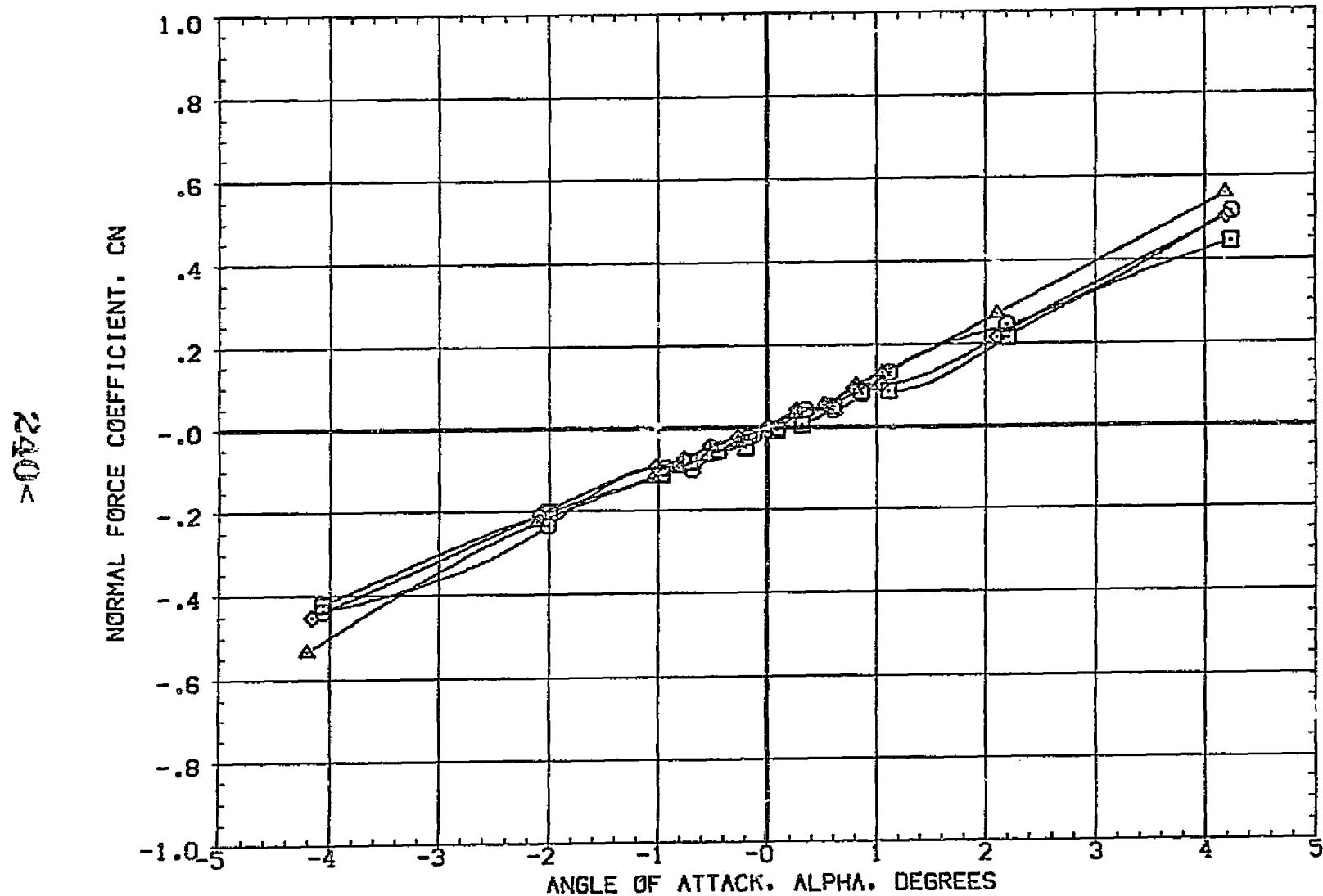
YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

COMPUTED - 1.00

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SYMBOL	MACH	BETA	PARAMETRIC VALUES
O	.636		.000
□	.800		
◊	.948		
△	.999		

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCENT



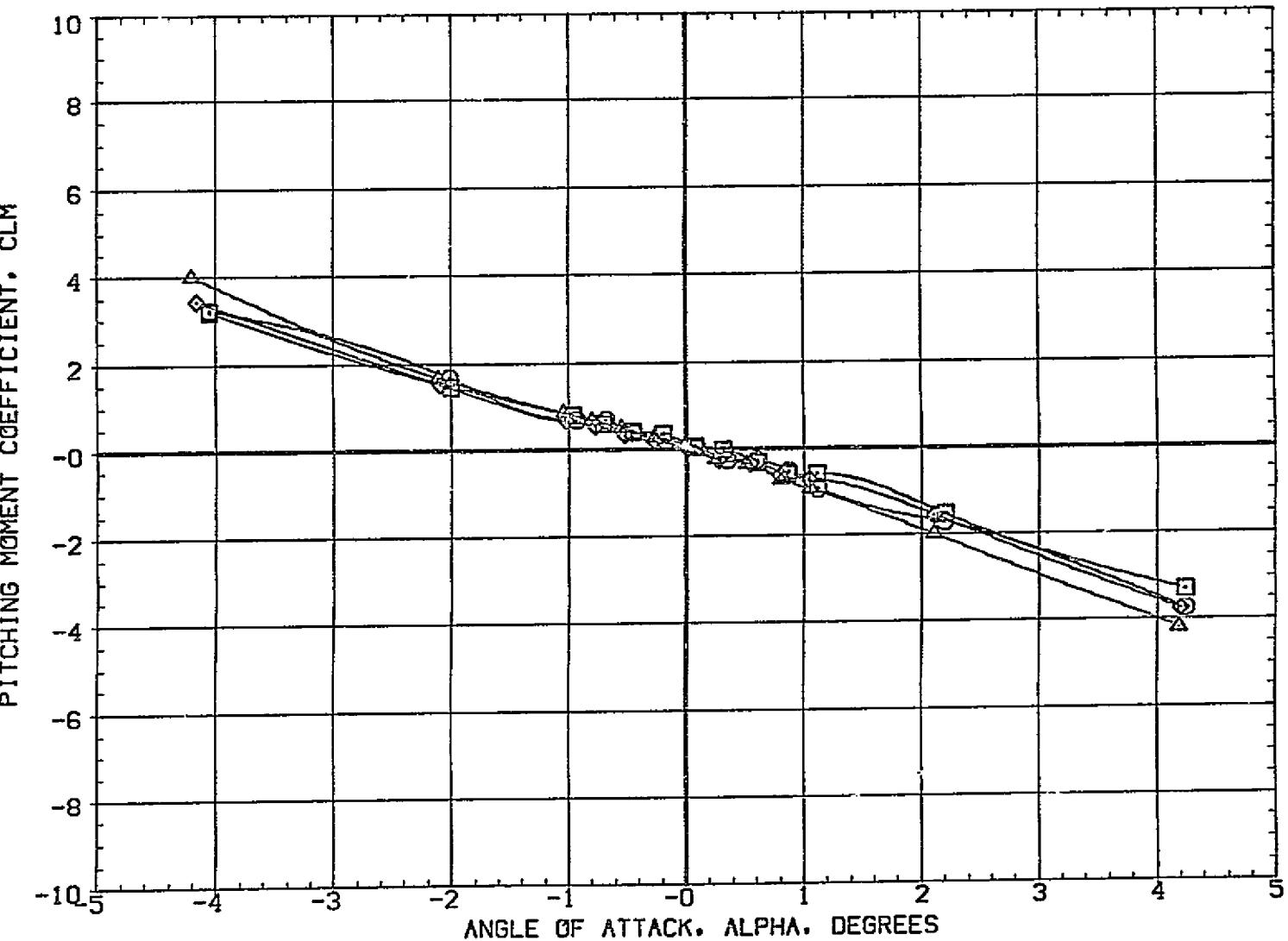
## MACH NUMBER EFFECT - CONFIGURATION B2 F5 C

DCAT ARC 603/604 B2 F5 C

(AX1030)

SYMBOL	MACH	BETA	PARAMETRIC VALUES
○	.636		.000
□	.800		
◊	.948		
△	.999		

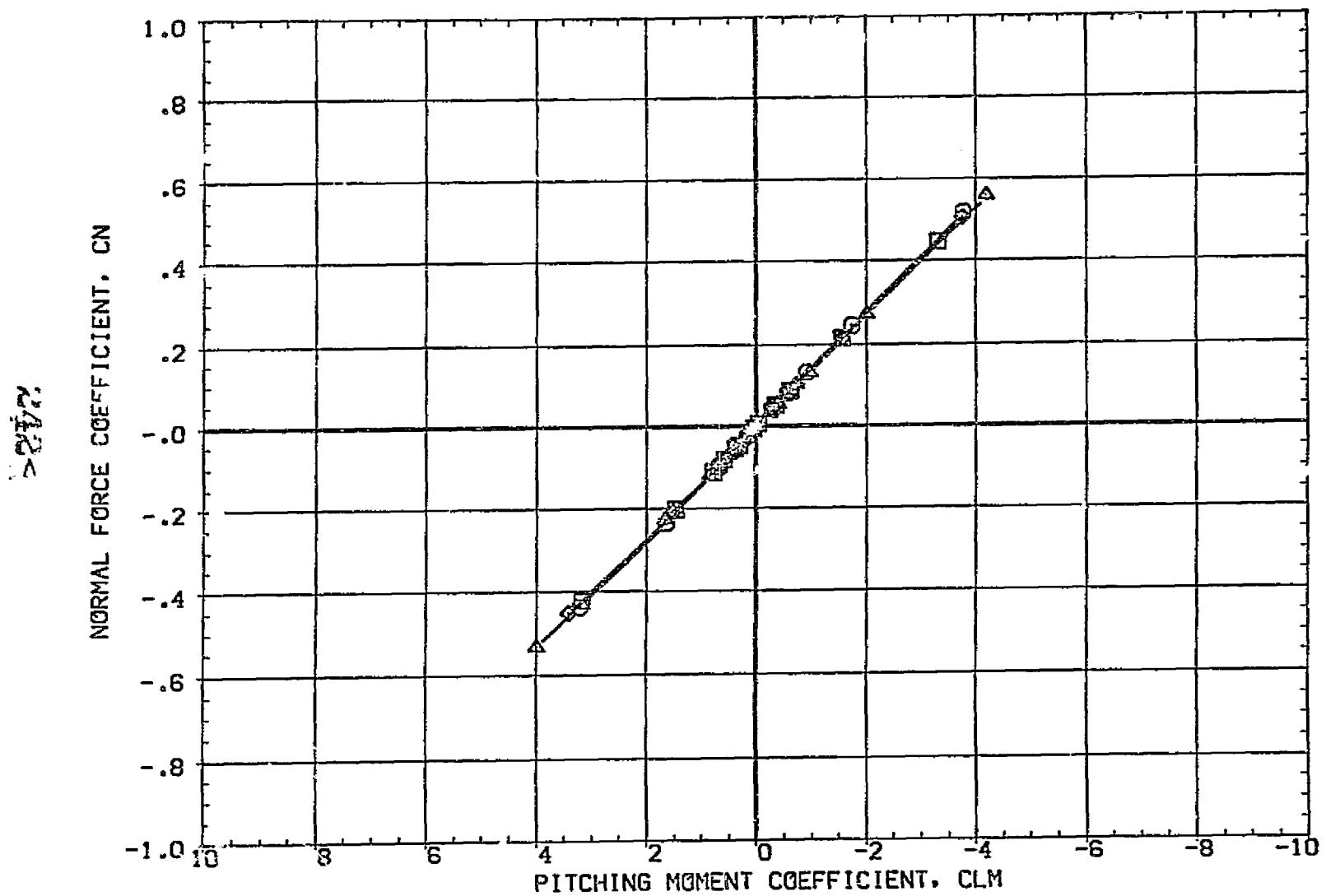
REFERENCE INFORMATION		
EF	.1100	SQ.FT.
EF	.3750	FT.
EF	.3750	FT.
RP	.0000	FT.
RP	.0000	FT.
RP	.0000	FT.
TALE	125,000	PERCENT



## MACH NUMBER EFFECT - CONFIGURATION B2 F5 C

SYMBOL MACH PARAMETRIC VALUES  
 ○ .636 BETA .000  
 □ .800  
 ◇ .948  
 △ .999

		REFERENCE INFORMATION	
		SO. FT.	
SREF	.1100	FT.	
LREF	.3750	FT.	
BREF	.3750	FT.	
XMRP	.0000	FT.	
YMRP	.0000	FT.	
ZMRP	.0000	FT.	
SCALE	125.0000	PERCENT	



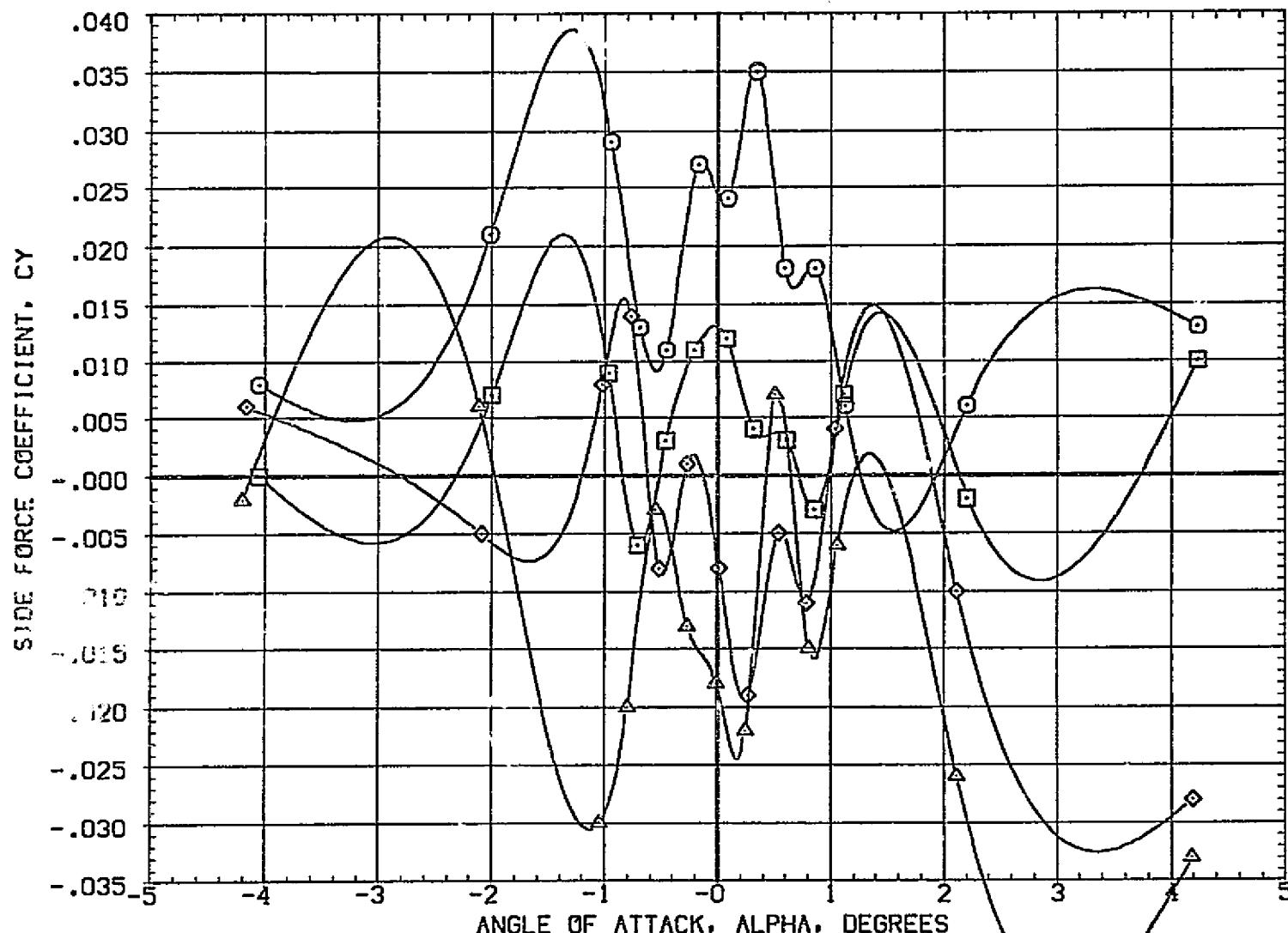
MACH NUMBER EFFECT - CONFIGURATION B2 F5 C

DCAT ARC 603/604 B2 F5 C

(AX1030)

SYMBOL	MACH	PARAMETRIC VALUES
○	.636	BETA .300
□	.800	
◊	.948	
△	.999	

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125,000	PERCENT



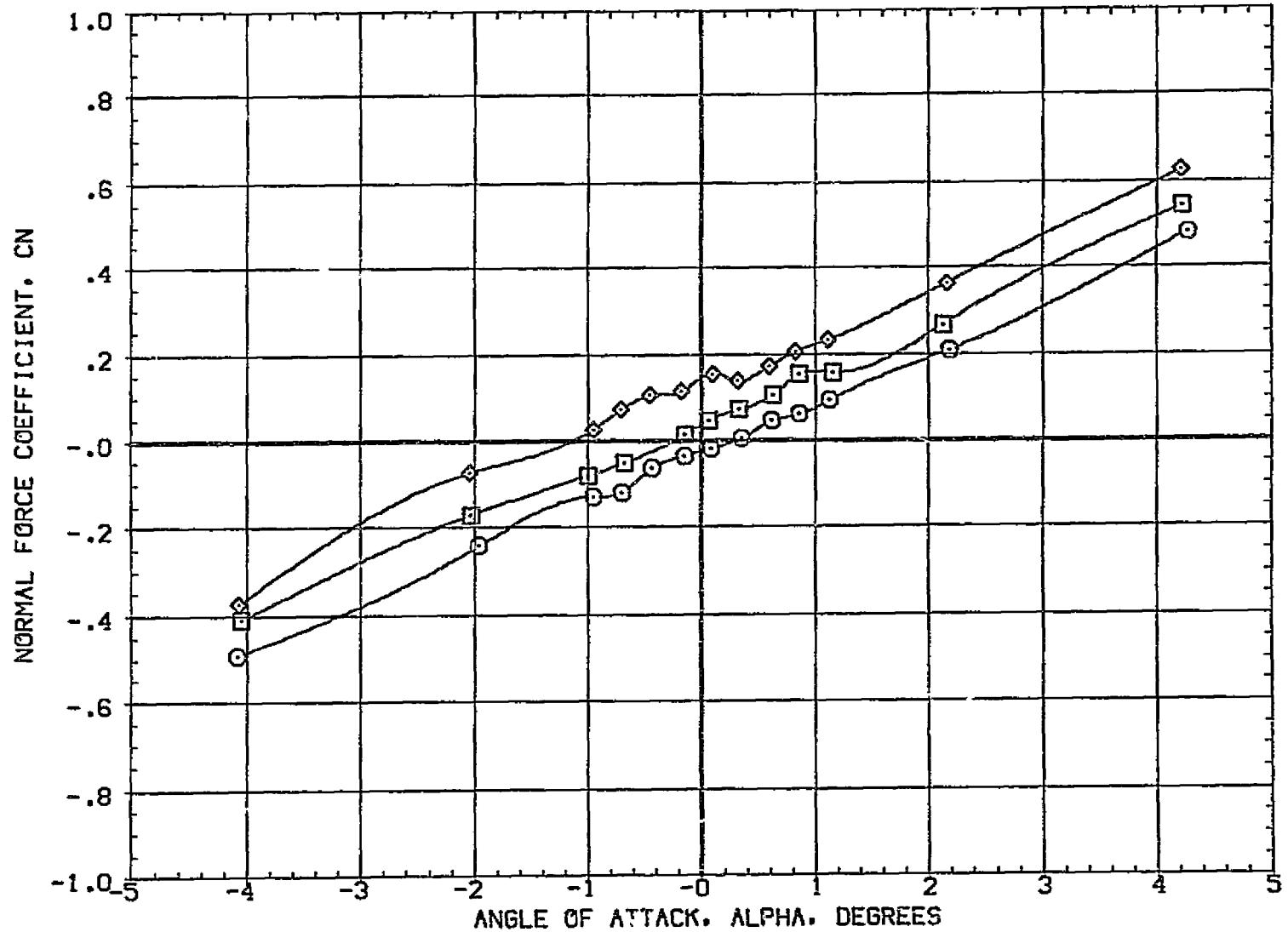
## MACH NUMBER EFFECT - CONFIGURATION B2 F5 C

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1024) DCAT ARC 603/604 B2 FS C  
 (BX1025) DCAT ARC 603/604 B2 FS C  
 (BX1026) DCAT ARC 603/604 B2 FS C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	.000	.000	86,000	SREF	.1100 SD.FT.
.000	40,000	.000	86,000	LREF	.3750 FT.
.000	100,000	.000	86,000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125,0000 PERCENT

> 2773



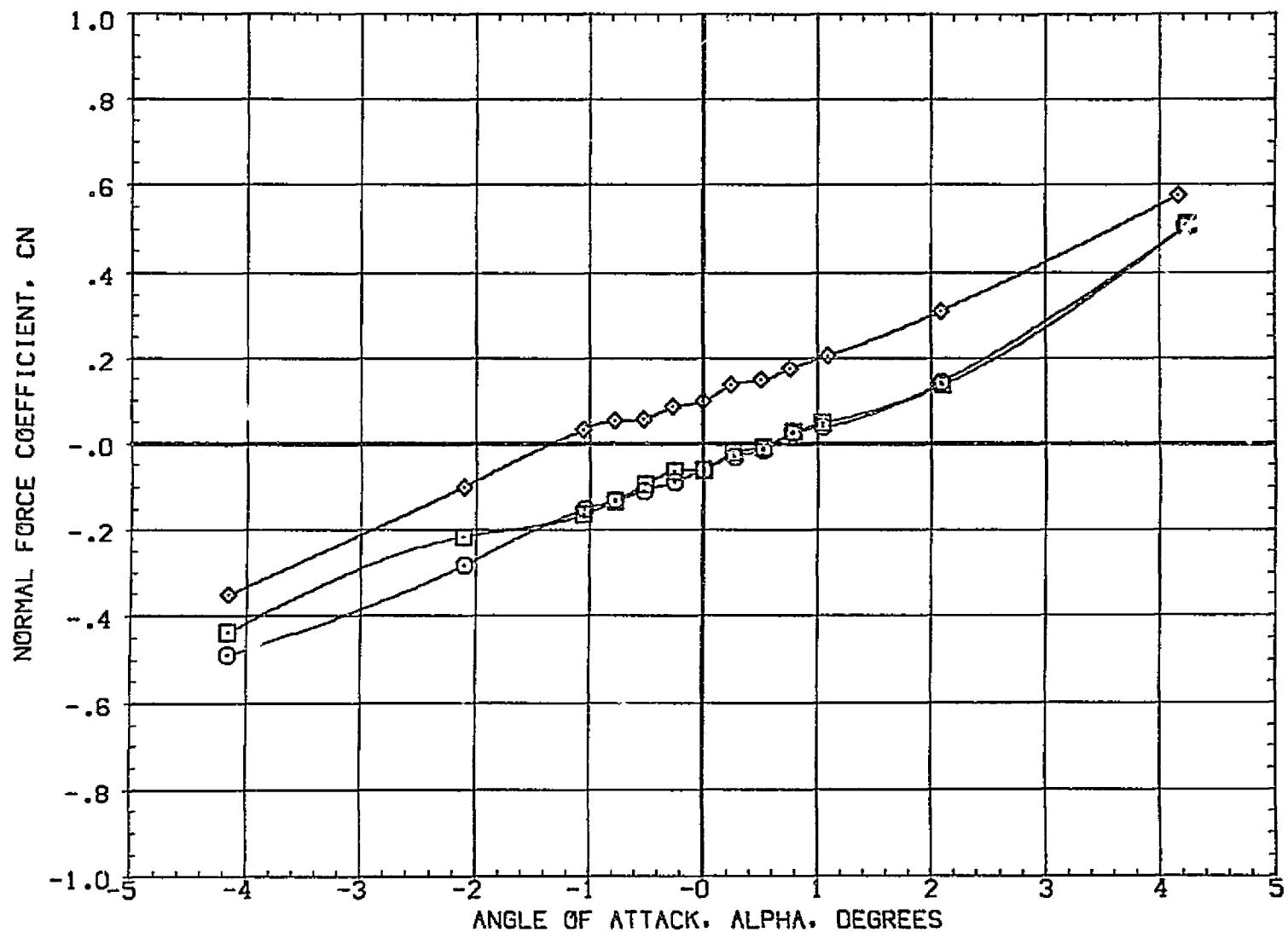
### PITCH MODULATION EFFECT

CADMACH = 0.64

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	PQJ/PF	REFERENCE	INFORMATION
(BX1024)	DCAT ARC 603/604 B2 FS C	.000	.000	.000	86.000	SREF	.1100 SQ.FT.
(BX1025)	DCAT ARC 603/604 B2 FS C	.000	40.000	.000	86.000	LREF	.3750 FT.
(BX1026)	DCAT ARC 603/604 B2 FS C	.000	100.000	.000	86.000	BREF	.3750 FT.
					XRP	.0000 FT.	
					YRP	.0000 FT.	
					ZRP	.0000 FT.	
					SCALE	125.0000 PERCENT	

>S72



PITCH MODULATION EFFECT

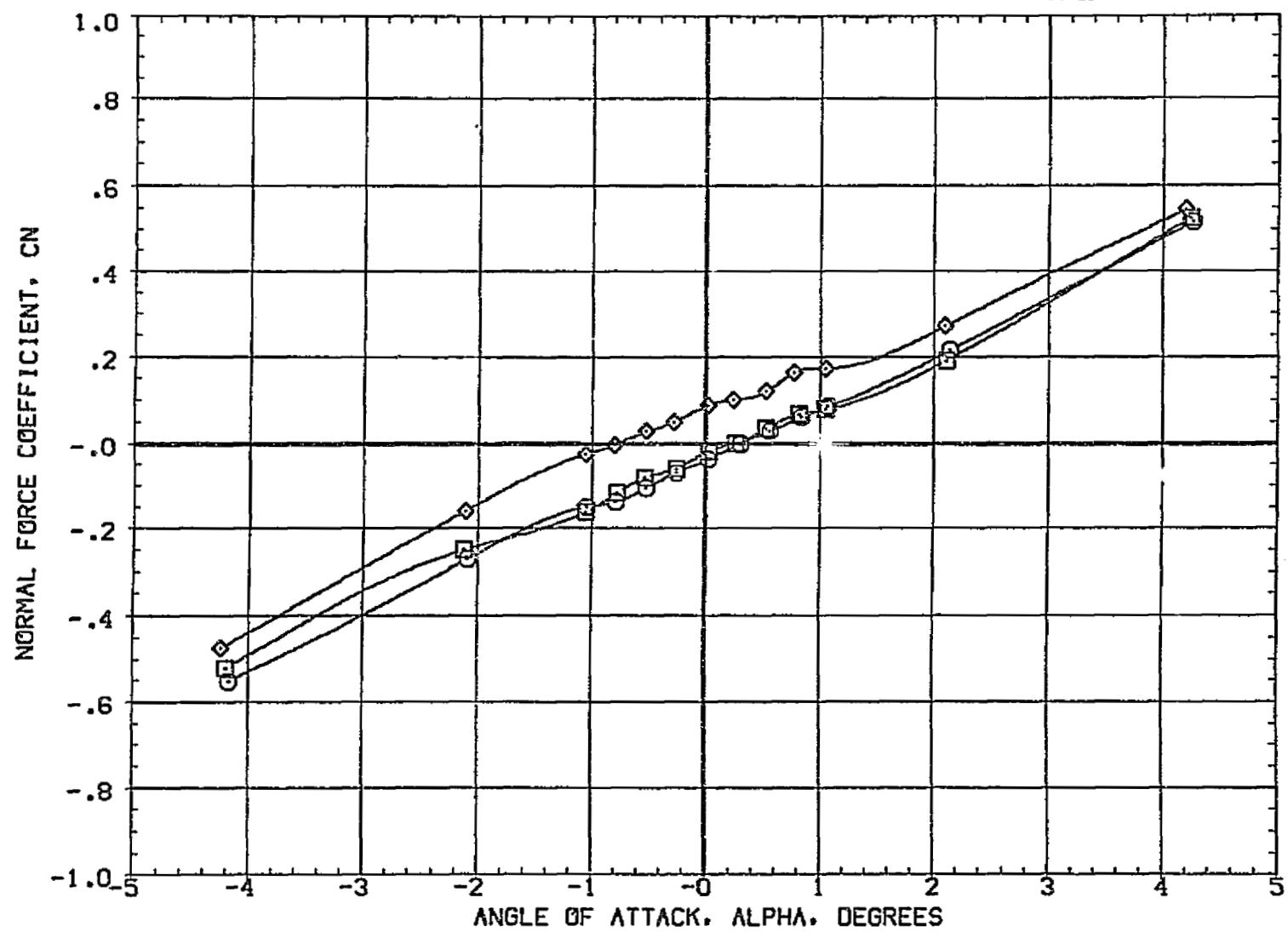
MACH = 0.95

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1024) D CAT ARC 603/604 B2 FS C  
 (BX1025) P CAT ARC 603/604 B2 FS C  
 (BX1026) L CAT ARC 603/604 B2 FS C

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE	INFORMATION
.000	.000	.000	66.000	SREF	.1100 SQ.FT.
.000	40.000	.000	66.000	LREF	.3750 FT.
.000	100.000	.000	66.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT

•>S773



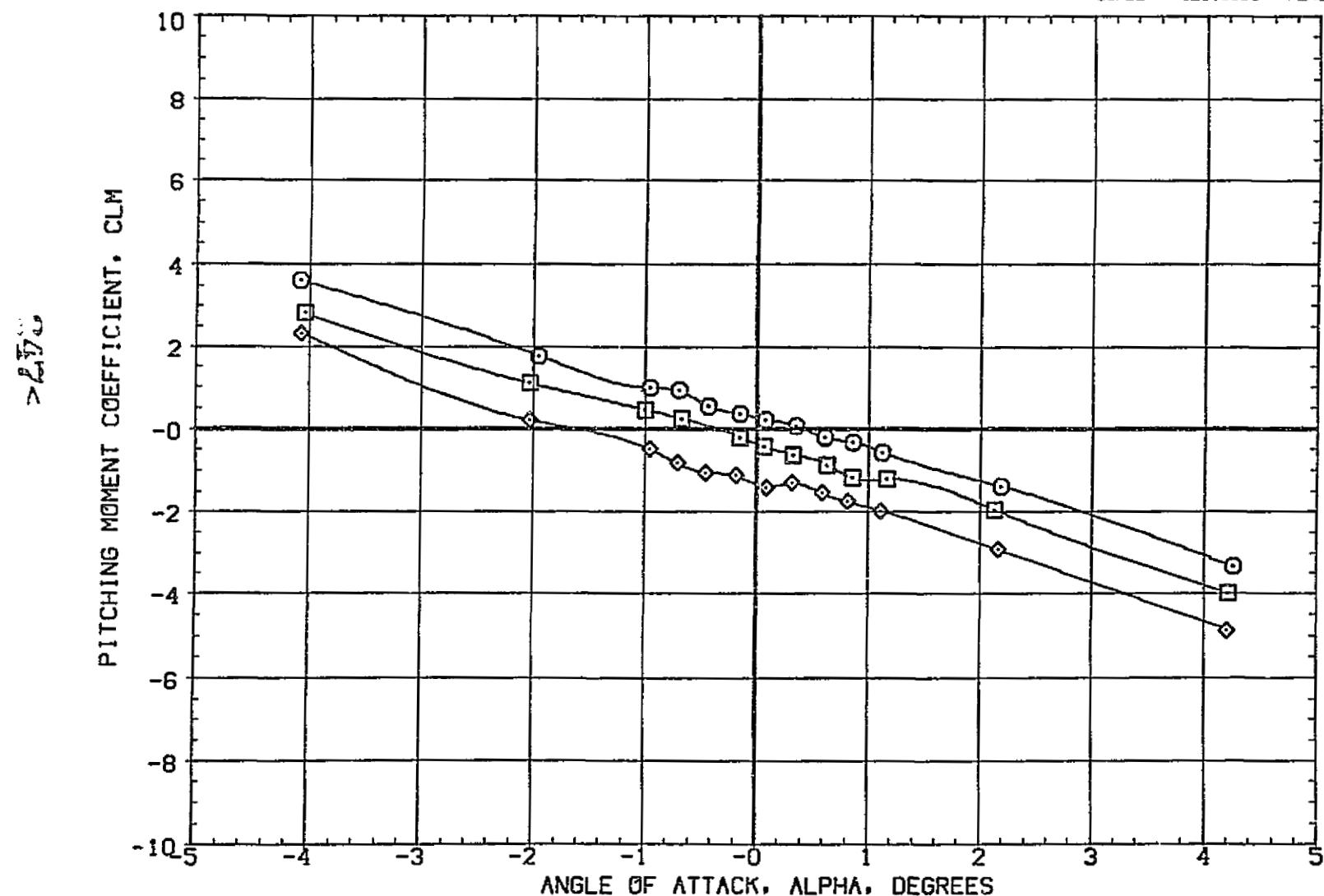
PITCH MODULATION EFFECT

(C)MACH = 1.00

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1024) O DCAT ARC 603/604 82 FS C  
 (BX1025) □ DCAT ARC 603/604 82 FS C  
 (BX1026) ◇ DCAT ARC 603/604 82 FS C

BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 SQ.FT.
.000	40.000	.000	86.000	LREF .3750 FT.
.000	100.000	.000	86.000	BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCNT



PITCH MODULATION EFFECT

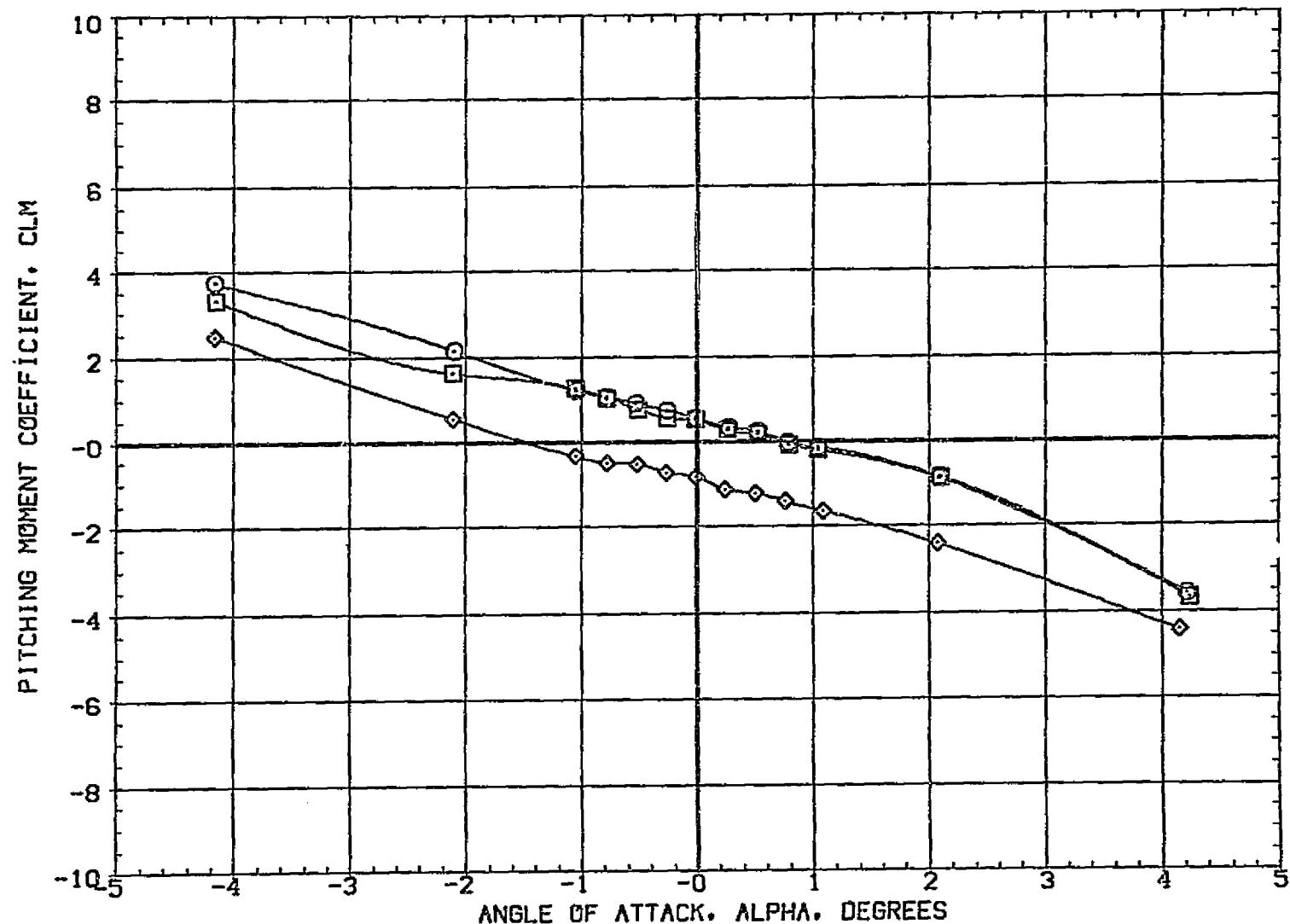
CANARD = 0.04

PAGE 224

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1024) O DCAT ARC 603/604 B2 FS C  
 (BX1025) □ DCAT ARC 603/604 B2 FS C  
 (BX1026) ◊ DCAT ARC 603/604 B2 FS C

BETA	P-MOD	Y-MOD	POV/PF	REFERENCE	INFORMATION
.000	.000	.000	86,000	SREF	.1100 SQ.FT.
.000	49,000	.000	26,000	LREF	.3750 FT.
.000	100,000	.000	86,000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125,000 PERCENT

>87%



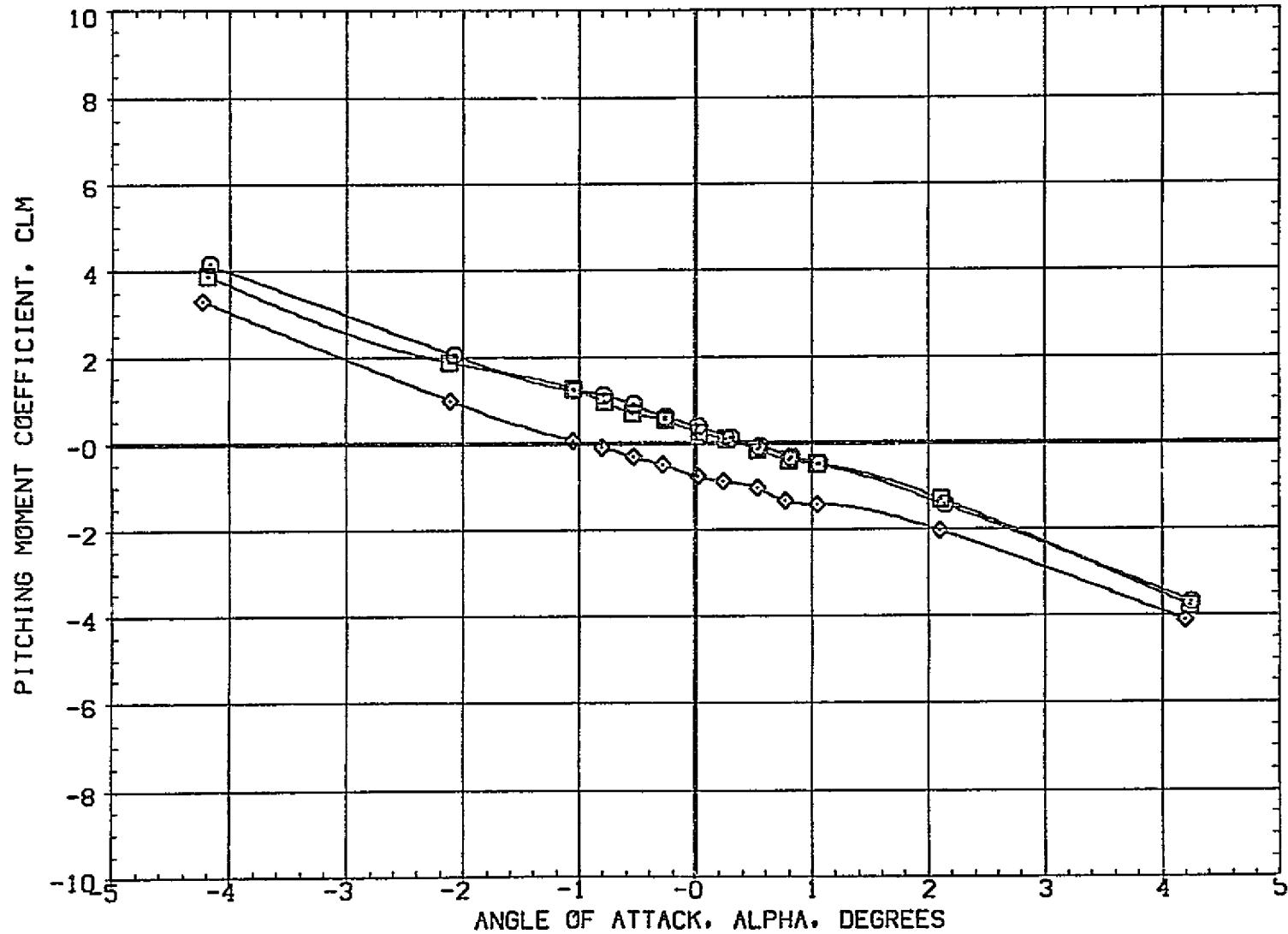
PITCH MODULATION EFFECT

(B)MACH = 0.95

PAGE 225

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1024) DCAT ARC 603/604 B2 F5 C  
 (BX1025) DCAT ARC 603/604 B2 F5 C  
 (BX1026) DCAT ARC 603/604 B2 F5 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
:000	:000	:000	85.000	SREF	.1100 SQ.FT.
:000	40.000	:000	85.000	LREF	.3750 FT.
:000	100.000	:000	85.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



PITCH MODULATION EFFECT

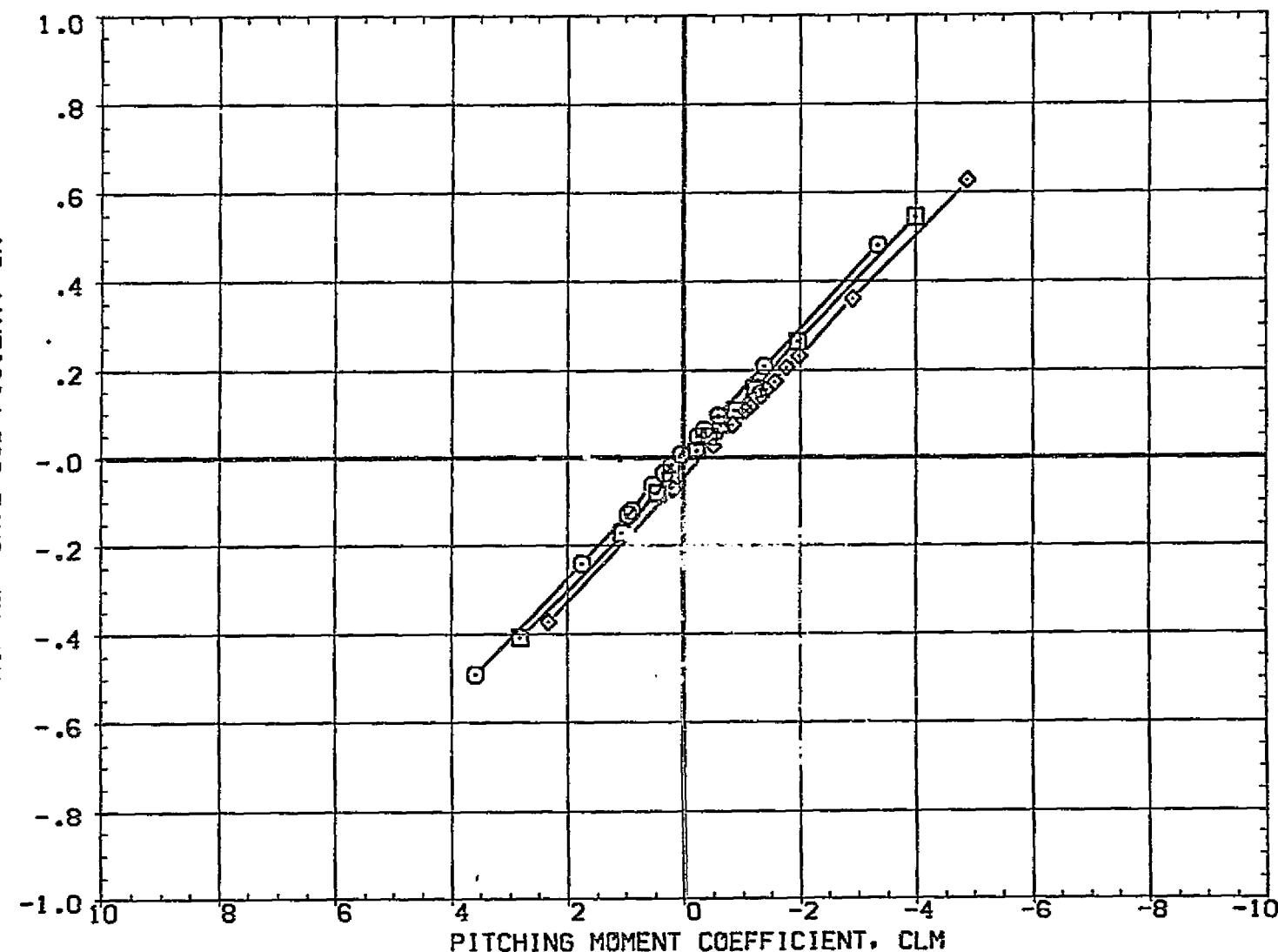
SCIMACH - 1.00

PAGE 226

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1024) O DCAT ARC 603/604 B2 FS C  
 (BX1025) DDCAT ARC 603/604 B2 FS C  
 (BX1026) DDCAT ARC 603/604 B2 FS C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 SO.FT.
.000	40.000	.000	86.000	LREF .3750 FT.
.000	100.000	.000	86.000	BREF .3750 FT.
			XMRP .0000 FT.	
			YMRP .0000 FT.	
			ZMRP .0000 FT.	
			SCALE 125.0000 PERCENT	

>C2N  
NORMAL FORCE COEFFICIENT, CN



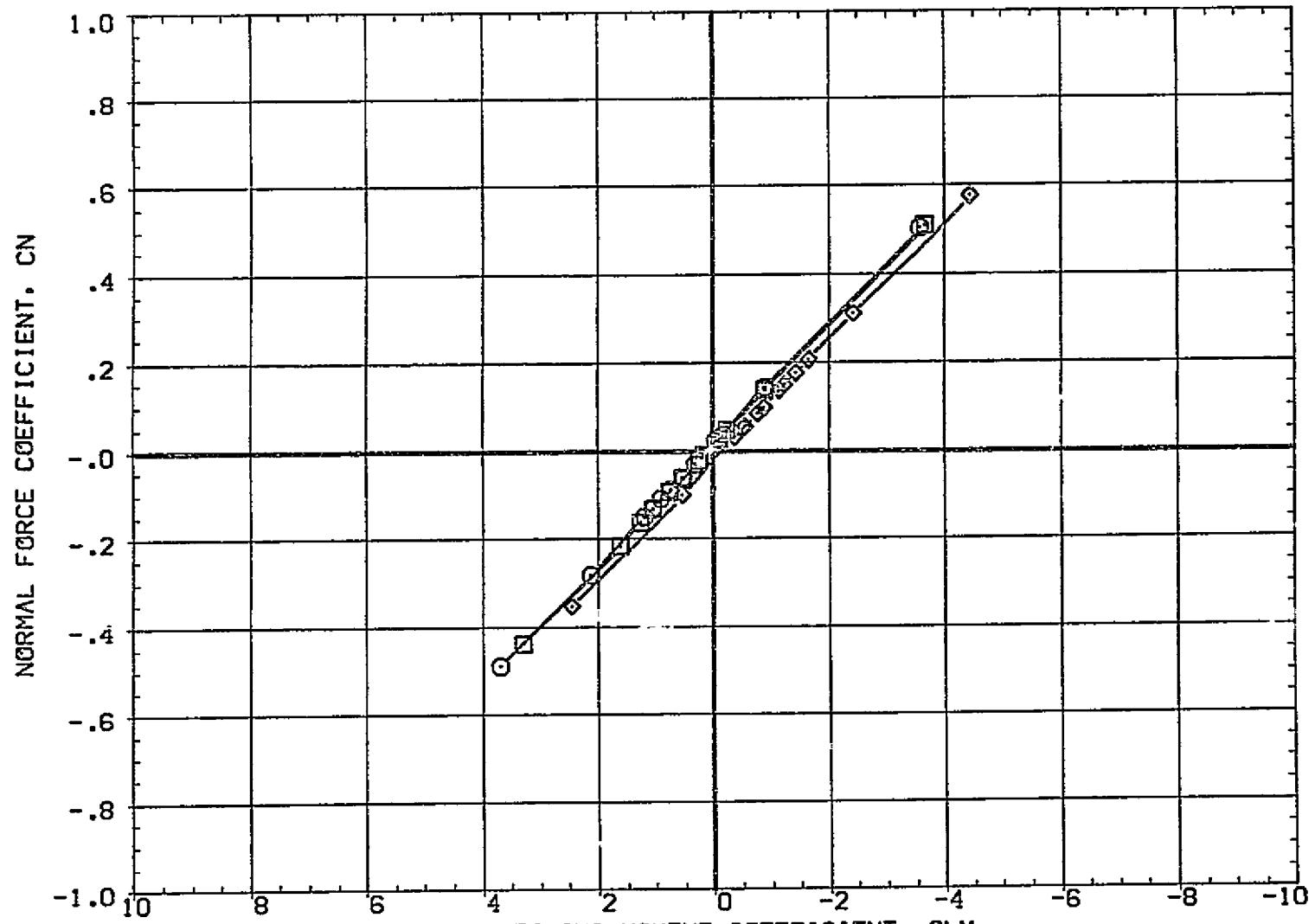
PITCH MODULATION EFFECT

CADMACH = 0.64

PAGE 227

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1024) O DCAT ARC 603/604 B2 FS C  
 (BX1025) □ DCAT ARC 603/604 B2 FS C  
 (BX1026) ◊ DCAT ARC 603/604 B2 FS C

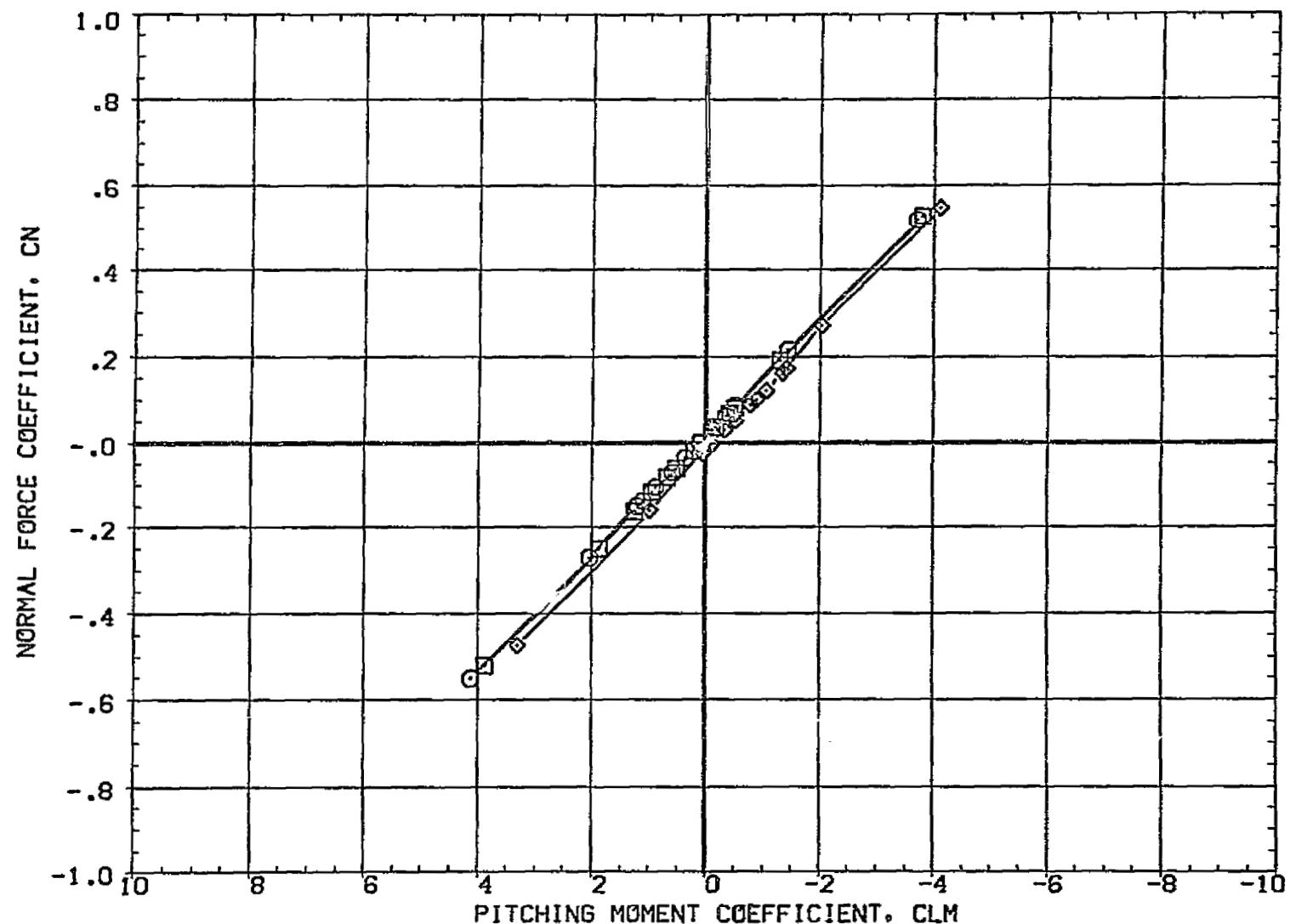
BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 SQ.FT.
.000	40.000	.000	86.000	LREF .3750 FT.
.000	100.000	.000	86.000	BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCENT



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1024)  $\square$  DCAT ARC 603/604 B2 FS C  
 (BX1025)  $\square$  DCAT ARC 603/604 B2 FS C  
 (BX1026)  $\diamond$  DCAT ARC 603/604 B2 FS C

BETA	P-MOD	Y-MOD	POW/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .1100 SQ.FT.
.000	40.000	.000	86.000	LREF .3750 FT.
.000	100.000	.000	86.000	BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCNT

>25%



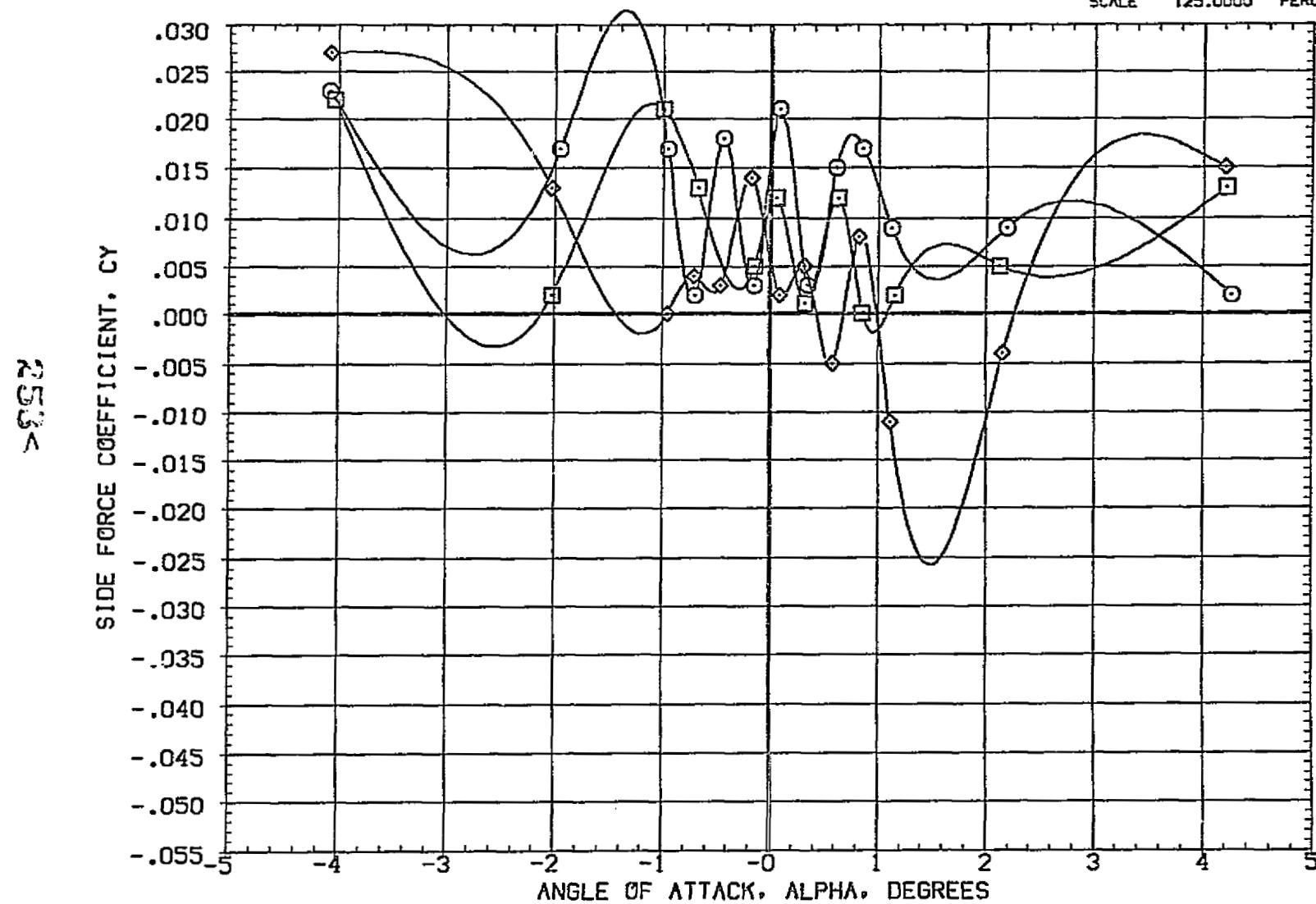
### PITCH MODULATION EFFECT

(C)MACH = 1.00

PAGE 229

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1024) O DCAT ARC 603/604 82 F5 C  
 (BX1025) □ DCAT ARC 603/604 82 F5 C  
 (BX1026) ◇ DCAT ARC 603/604 82 F5 C

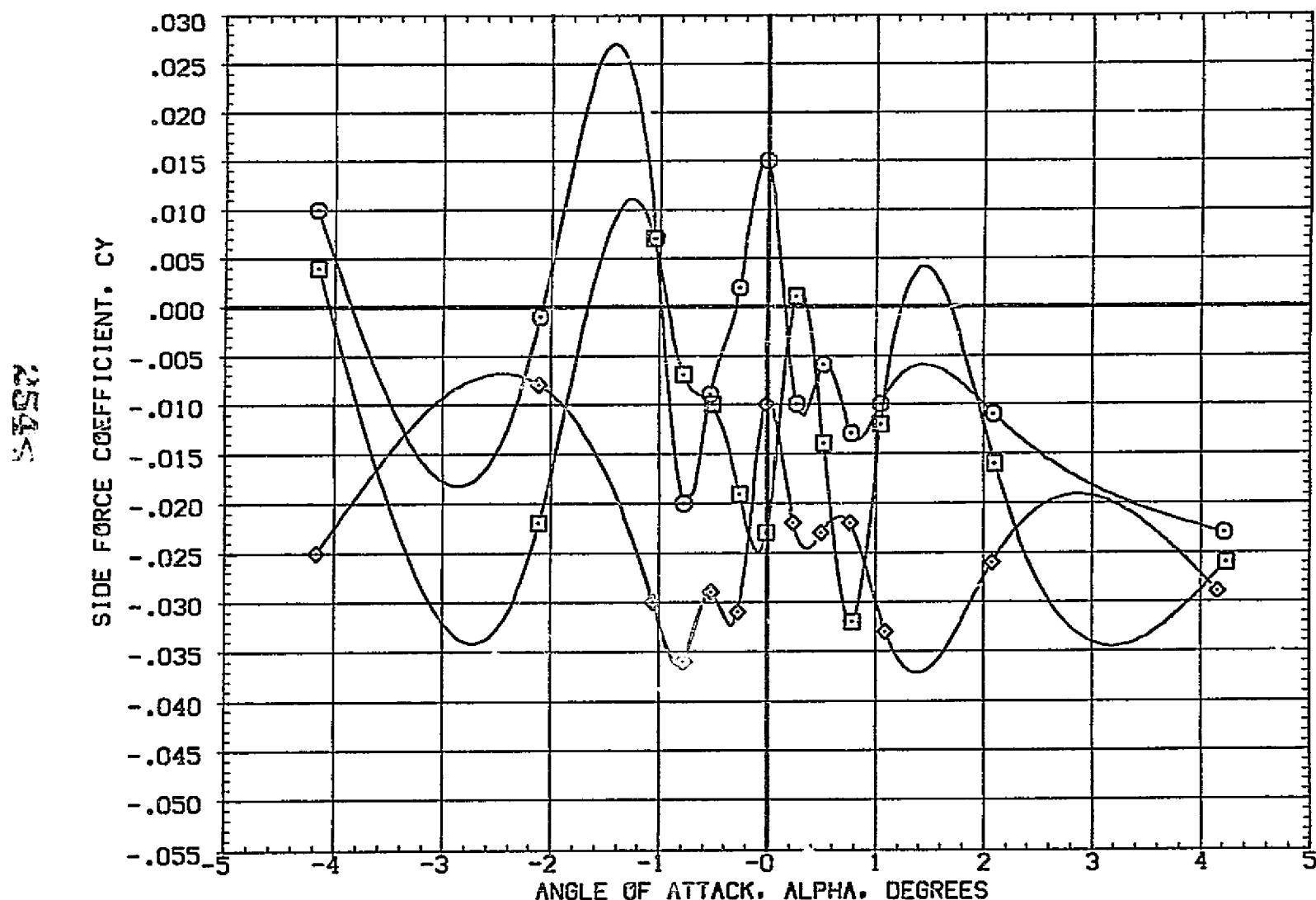
BETA	P-MOD	Y-MOD	PQJ/PF	REFERENCE	INFORMATION
.000	.000	.000	85.000	SREF	.1100 SQ.FT.
.000	40.000	.000	85.000	LREF	.3750 FT.
.000	100.000	.000	85.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



PITCH MODULATION EFFECT

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1024) O DCAT ARC 603/604 B2 FS C  
 (BX1025) □ DCAT ARC 603/604 B2 FS C  
 (BX1026) ◊ DCAT ARC 603/604 B2 FS C

BETA	P-MOD	Y-MOD	POV/PF	REFERENCE	INFORMATION
.000	.000	.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	.000	86.000	CREF	.3750 FT.
.000	160.000	.000	86.000	BREF	.3750 FT.
				XRP	.0000 FT.
				YRP	.0000 FT.
				ZRP	.0000 FT.
				SCALE	125.0000 PERCENT

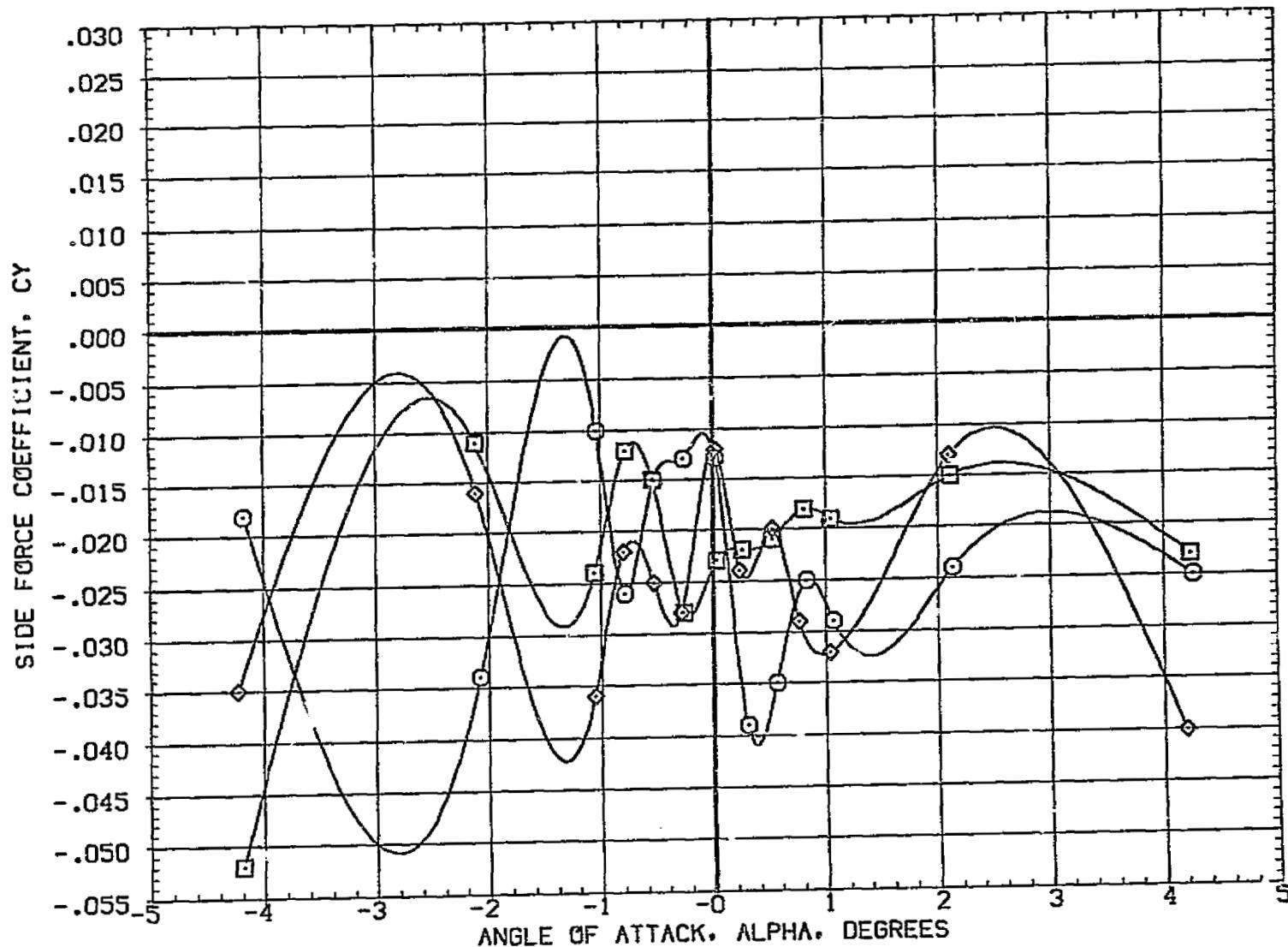


### PITCH MODULATION EFFECT

(B)MACH = 0.95

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1024) O DCAT ARC 603/604 B2 FS C  
 (BX1025) □ DCAT ARC 603/604 B2 FSC  
 (BX1026) ◇ DCAT ARC 603/604 B2 FS C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION
.000	.000	.000	86.000	SREF .100 SQ.FT.
.000	40.000	.000	86.000	LREF .3750 FT.
.000	100.000	.000	86.000	BREF .3750 FT.
				XMRP .0000 FT.
				YMRP .0000 FT.
				ZMRP .0000 FT.
				SCALE 125.0000 PERCNT



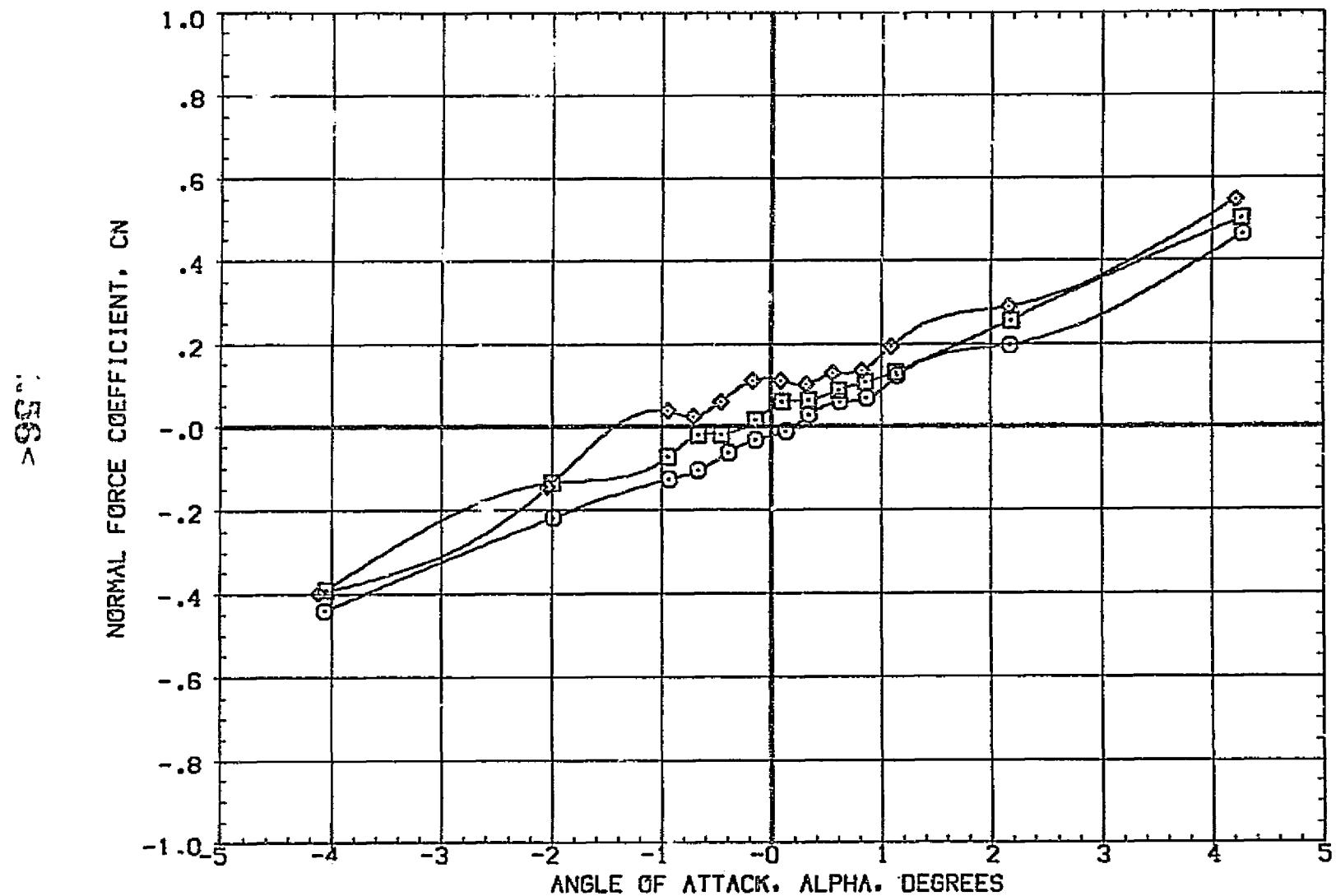
### PITCH MODULATION EFFECT

SCMACH = 1.00

PAGE 232

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1027) O DCAT ARC 603/604 B2 FS C  
 (BX1028) □ DCAT ARC 603/604 B2 FS C  
 (BX1029) ◊ DCAT ARC 603/604 B2 FS C

BETA	P-MOD	Y-MOD	PGJ/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	100.000	100.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



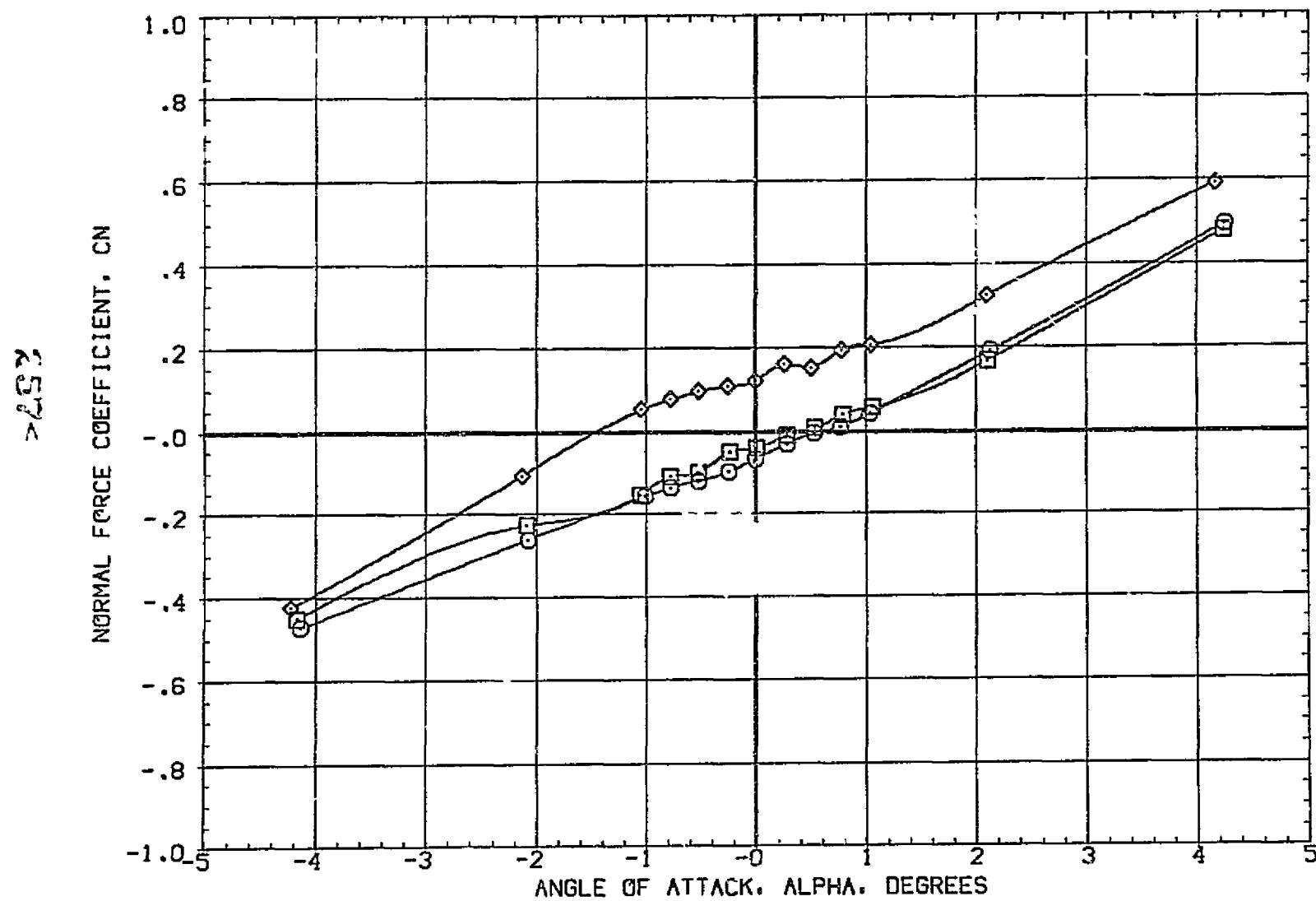
PITCH MODULATION EFFECT

(ADMACH = 0.64)

PAGE 233

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1027) O DCAT ARC 603/604 .82 FS C  
 (BX1028) □ DCAT ARC 603/604 .82 FS C  
 (BX1029) ◊ DCAT ARC 603/604 .82 FS C

BETA	P-MOD	Y-MOD	PG/PF	REFERENCE	INFORMATION
.000	.000	100.000	66.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	66.000	LREF	.3750 FT.
.000	100.000	100.000	66.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT

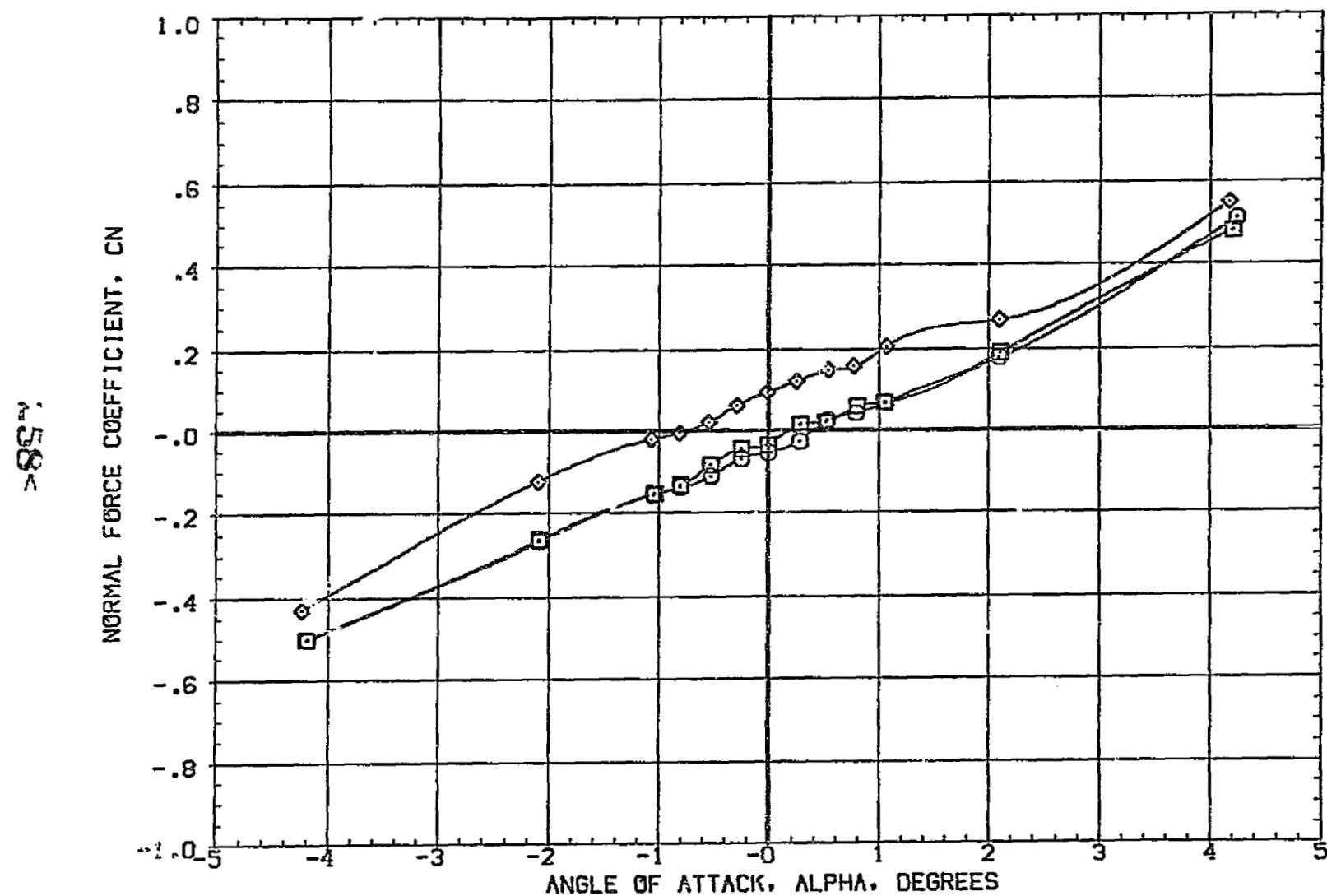


PITCH MODULATION EFFECT

FORMULA - 0.95

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1027) O DCAT ARC 603/604 B2 FS C  
 (BX1028) □ DCAT ARC 603/604 B2 FS C  
 (BX1029) ◊ DCAT ARC 603/604 B2 FS C

BETA	P-MOD	Y-MOD	PQJ/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SO.FT.
.000	40.000	100.000	85.000	LREF	.3750 FT.
.000	100.000	100.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT



PITCH MODULATION EFFECT

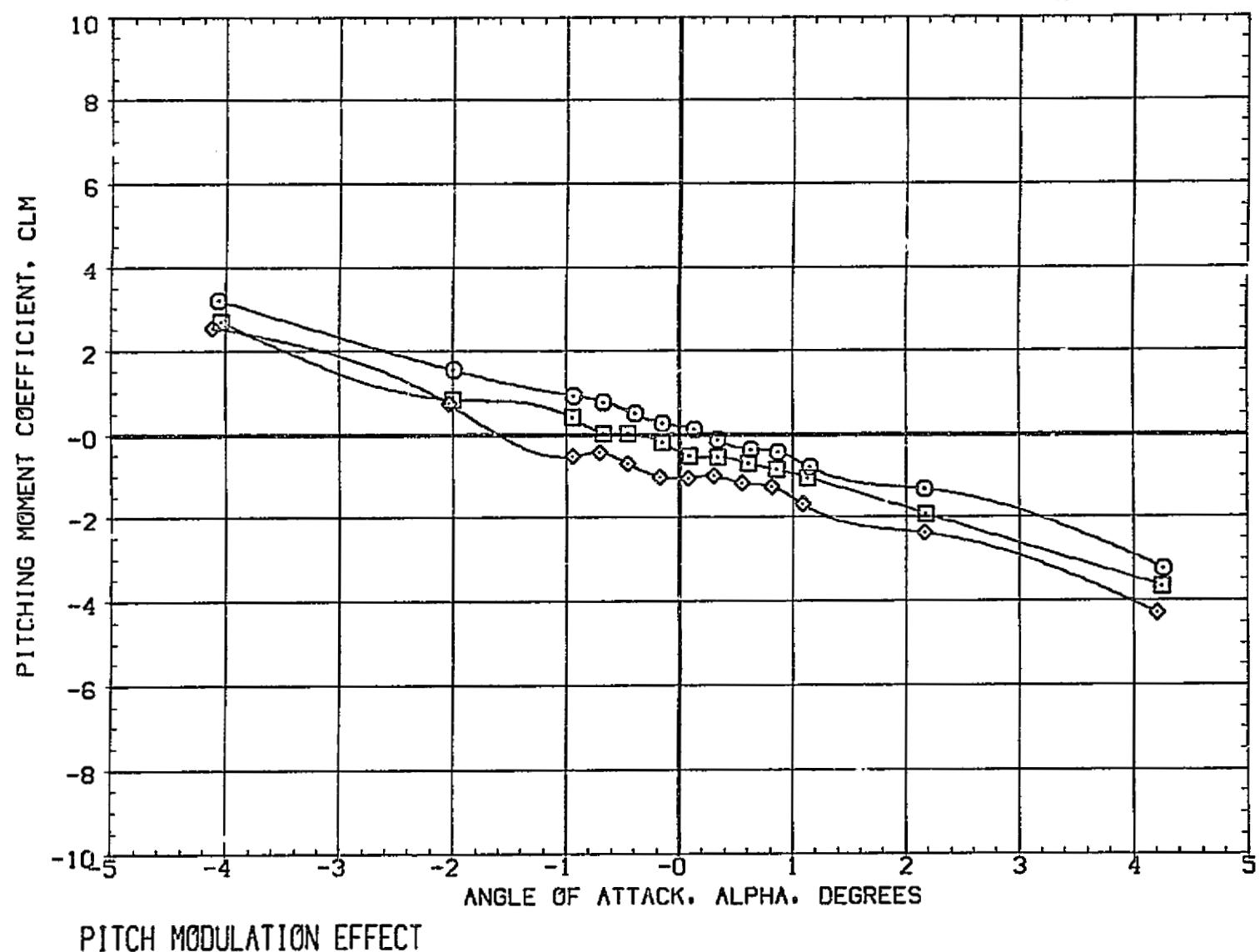
(C)MACH = 1.00

PAGE 235

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1027) O DCAT ARC 603/604 B2 FS C  
 (BX1028) □ DCAT ARC 603/604 B2 FS C  
 (BX1029) ◊ DCAT ARC 603/604 B2 FS C

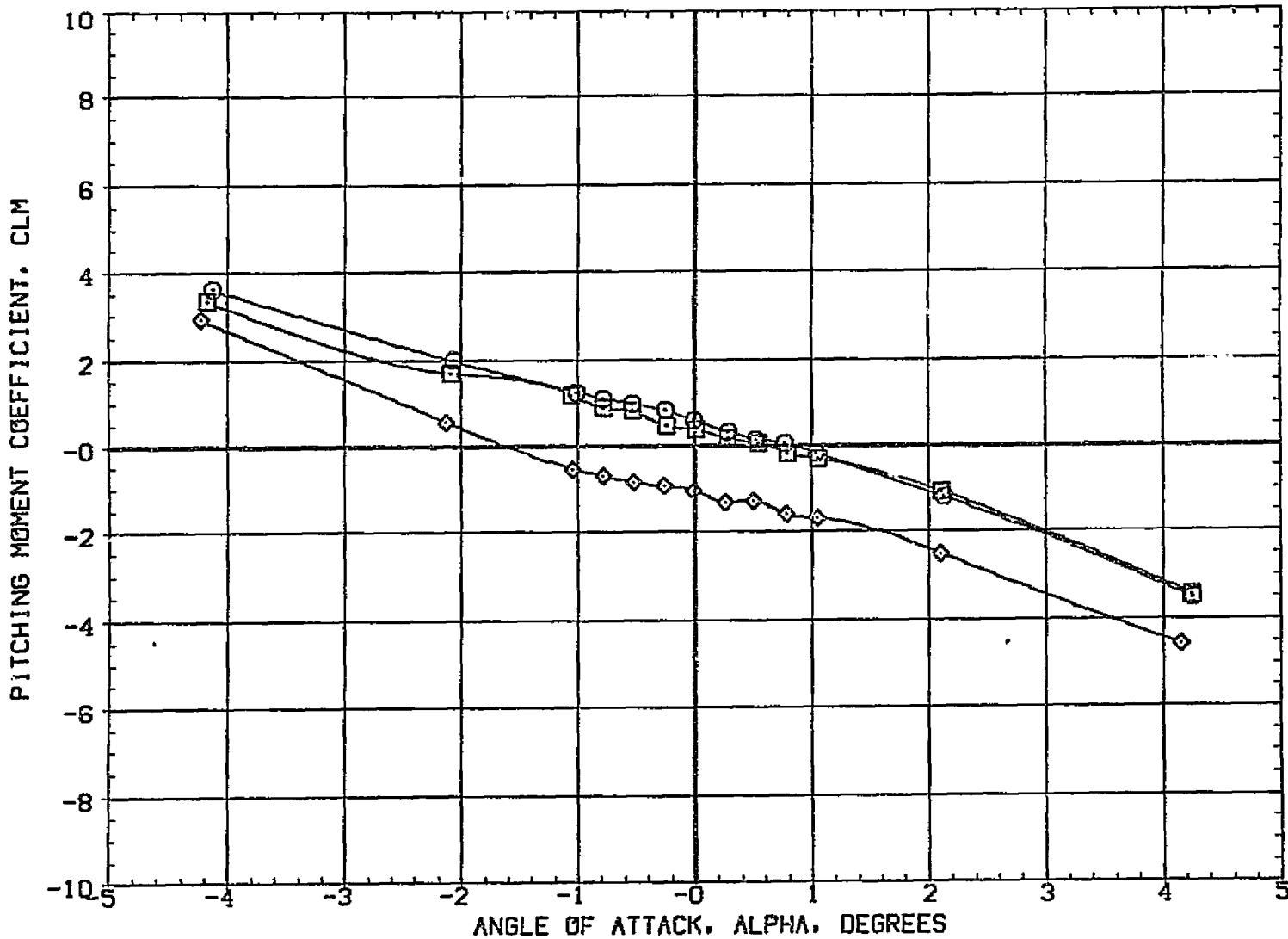
BETA	P-MOD	Y-MOD	PGJ/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	100.000	100.000	86.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCNT

>65%



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1027) DCAT ARC 603/604 B2 F5 C  
 (BX1028) DCAT ARC 603/604 B2 F5 C  
 (BX1029) DCAT ARC 603/604 B2 F5 C

BETA	P-MOD	Y-MOD	PQJ/PF	REFERENCE	INFORMATION
.000	.000	100.000	66.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	66.000	LREF	.3750 FT.
.000	100.000	100.000	66.000	BREF	.3750 FT.
				XRP	.0000 FT.
				YRP	.0000 FT.
				ZRP	.0000 FT.
				SCALE	125.0000 PERCENT



PITCH MODULATION EFFECT

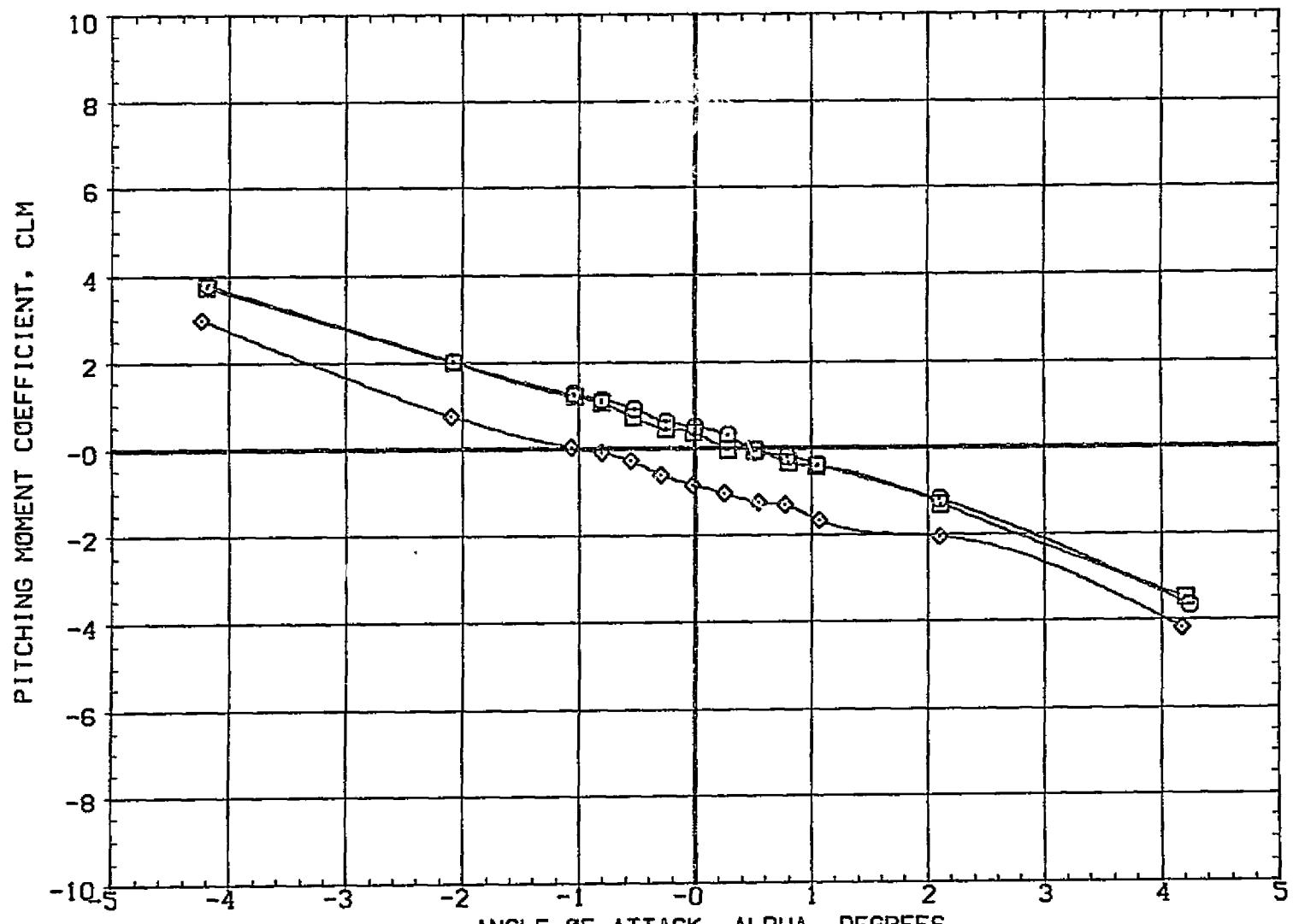
(B)MACH = 0.95

PAGE 237

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1027)  $\square$  DCAT ARC 603/604 B2 FS C  
 (BX1028)  $\square$  DCAT ARC 603/604 B2 FS C  
 (BX1029)  $\diamond$  DCAT ARC 603/604 B2 FS C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE INFORMATION
.000	.000	100.000	85.000	SREF .1100 50.FT.
.000	40.000	100.000	85.000	LREF 3750 FT.
.000	100.000	100.000	85.000	BREF 3750 FT.
				XMRP 0000 FT.
				YMRP 0000 FT.
				ZMRP 0000 FT.
				SCALE 125.0000 PERCENT

>TOP



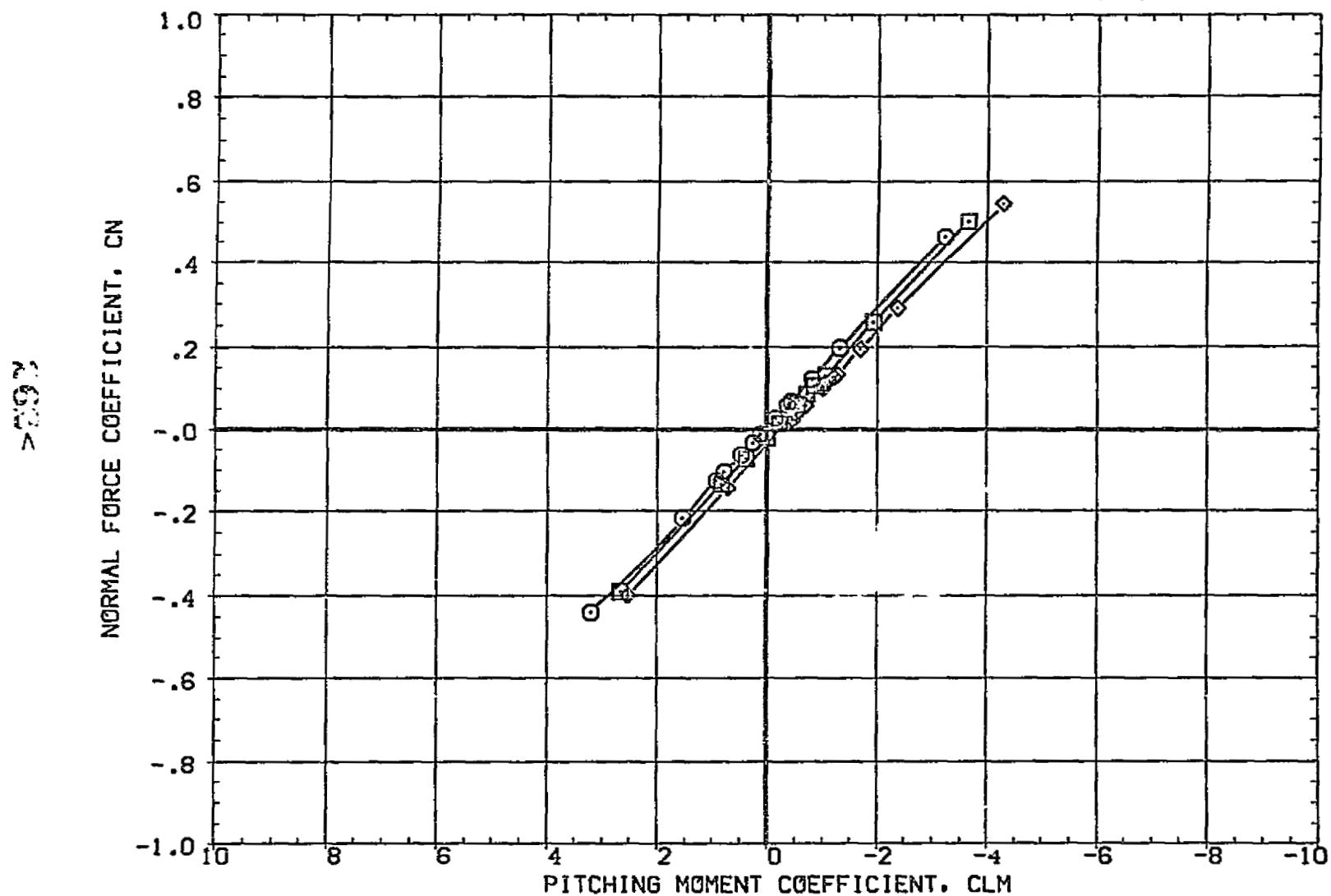
### PITCH MODULATION EFFECT

COMPUTER - 1.00

PAGE 238

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1027) O DCAT ARC 603/604 B2 F5 C  
 (BX1028) □ DCAT ARC 603/604 B2 F5 C  
 (BX1029) ◊ DCAT ARC 603/604 B2 F5 C

BETA	P-MOD	Y-MOD	P01/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	100.000	100.000	86.000	BREF	.3750 FT.
				XMRD	.0000 FT.
				YMRD	.0010 FT.
				ZMRD	.0000 FT.
				SCALE	125.0000 PERCNT



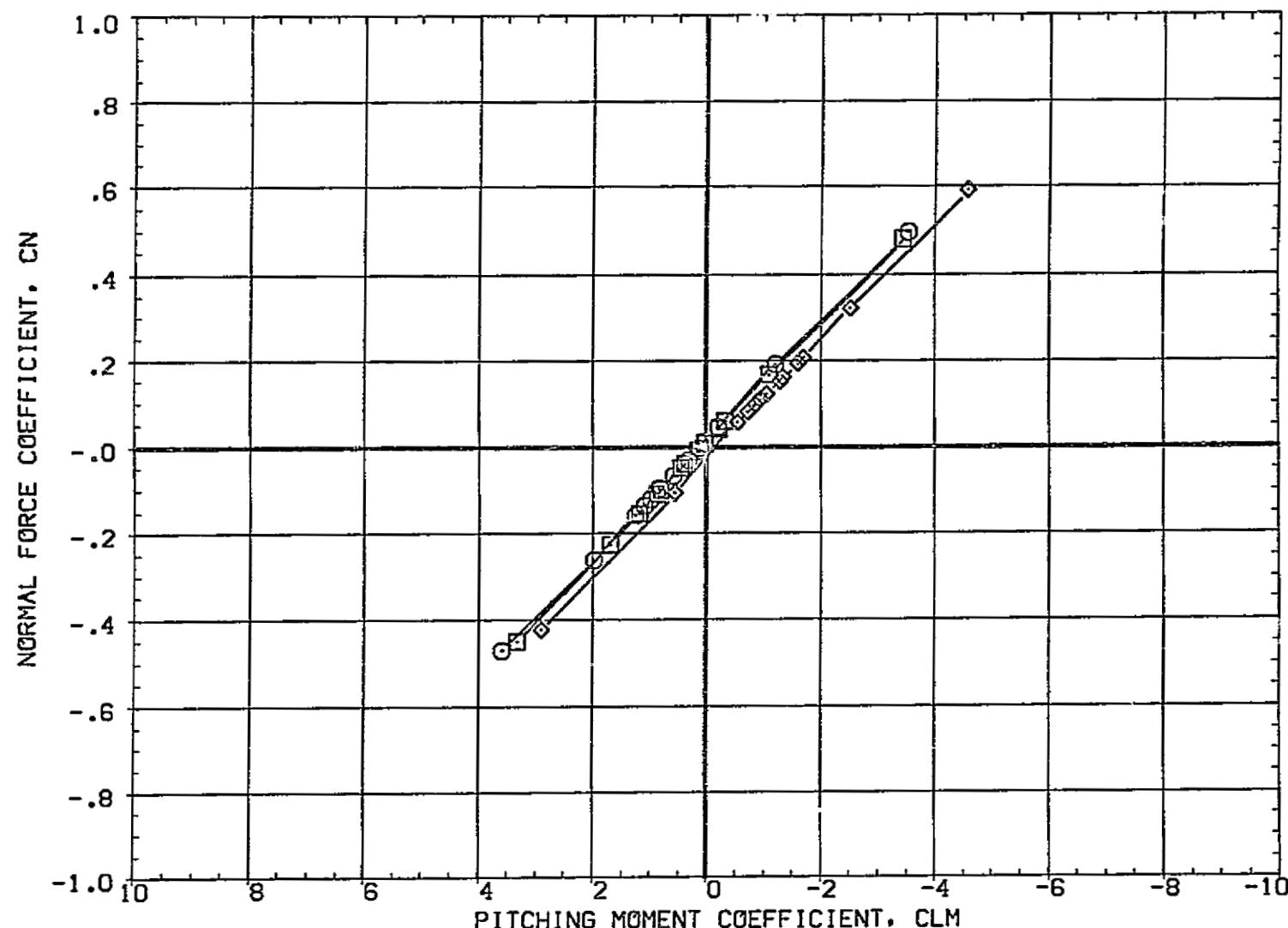
PITCH MODULATION EFFECT

(A)MACH = 0.64

PAGE 239

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	P0Y/PF	REFERENCE	INFORMATION
(BX1027)	DCAT ARC 603/604 B2 FS C	.000	.000	100.000	86.000	SREF	.1100 SQ.FT.
(BX1028)	DCAT ARC 603/604 B2 FS C	.000	40.000	100.000	86.000	LREF	.3750 FT.
(BX1029)	DCAT ARC 603/604 B2 FS C	.000	100.000	100.000	86.000	BREF	.3750 FT.
						XMRP	.0000 FT.
						YMRP	.0000 FT.
						ZMRP	.0000 FT.
						SCALE	125.0000 PERCENT

263



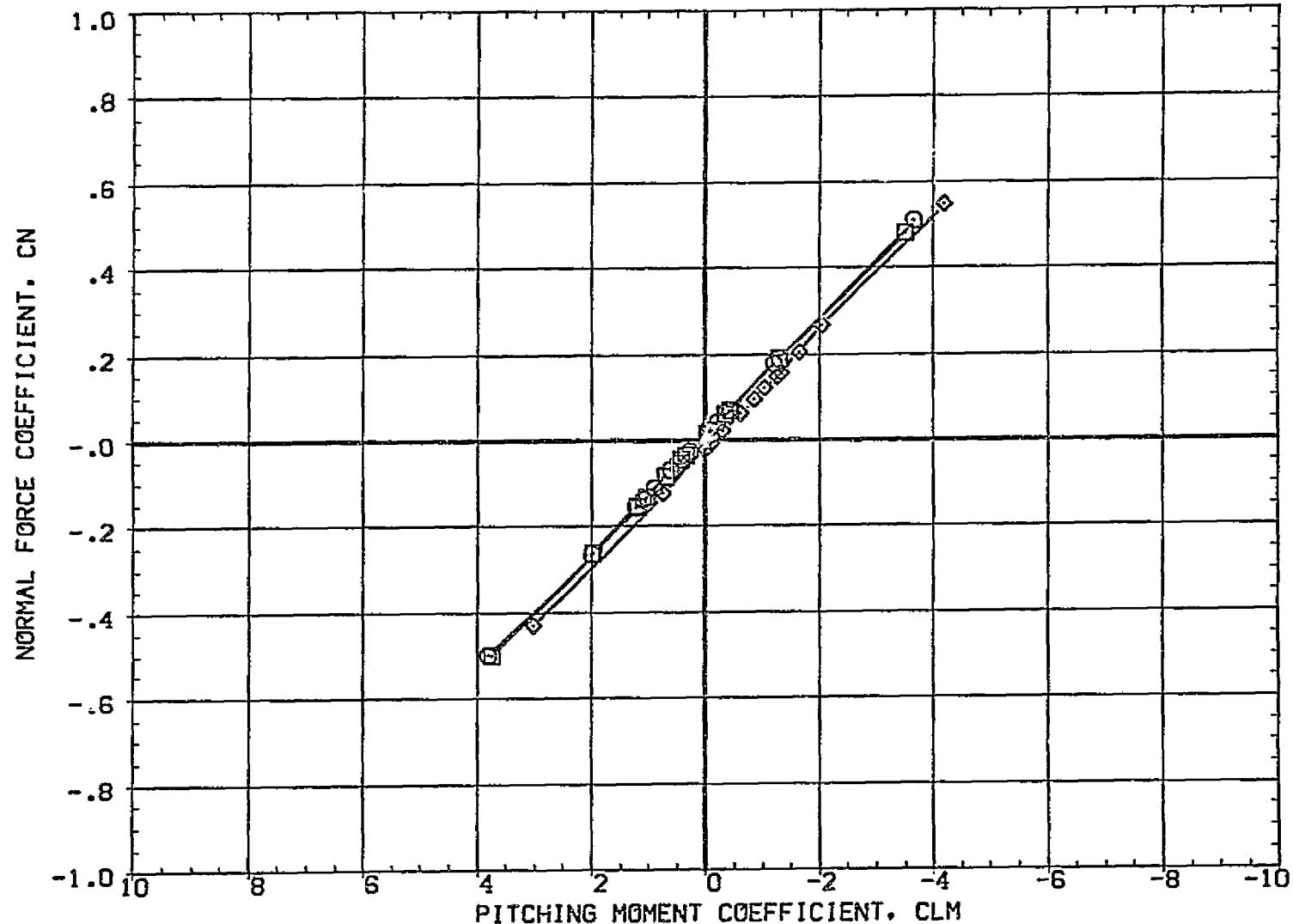
PITCH MODULATION EFFECT

(B)MACH = 0.95

PAGE 240

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1027) O DCAT ARC 603/604 B2 F5 C  
 (BX1028) □ DCAT ARC 603/604 B2 F5 C  
 (BX1029) ◊ DCAT ARC 603/604 B2 F5 C

BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE	INFORMATION
.000	.000	100.000	86.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	100.000	100.000	86.000	GREF	.3750 FT.
				XRP	.0000 FT.
				YRP	.0000 FT.
				ZRP	.0000 FT.
				SCALE	125.0000 PERCENT

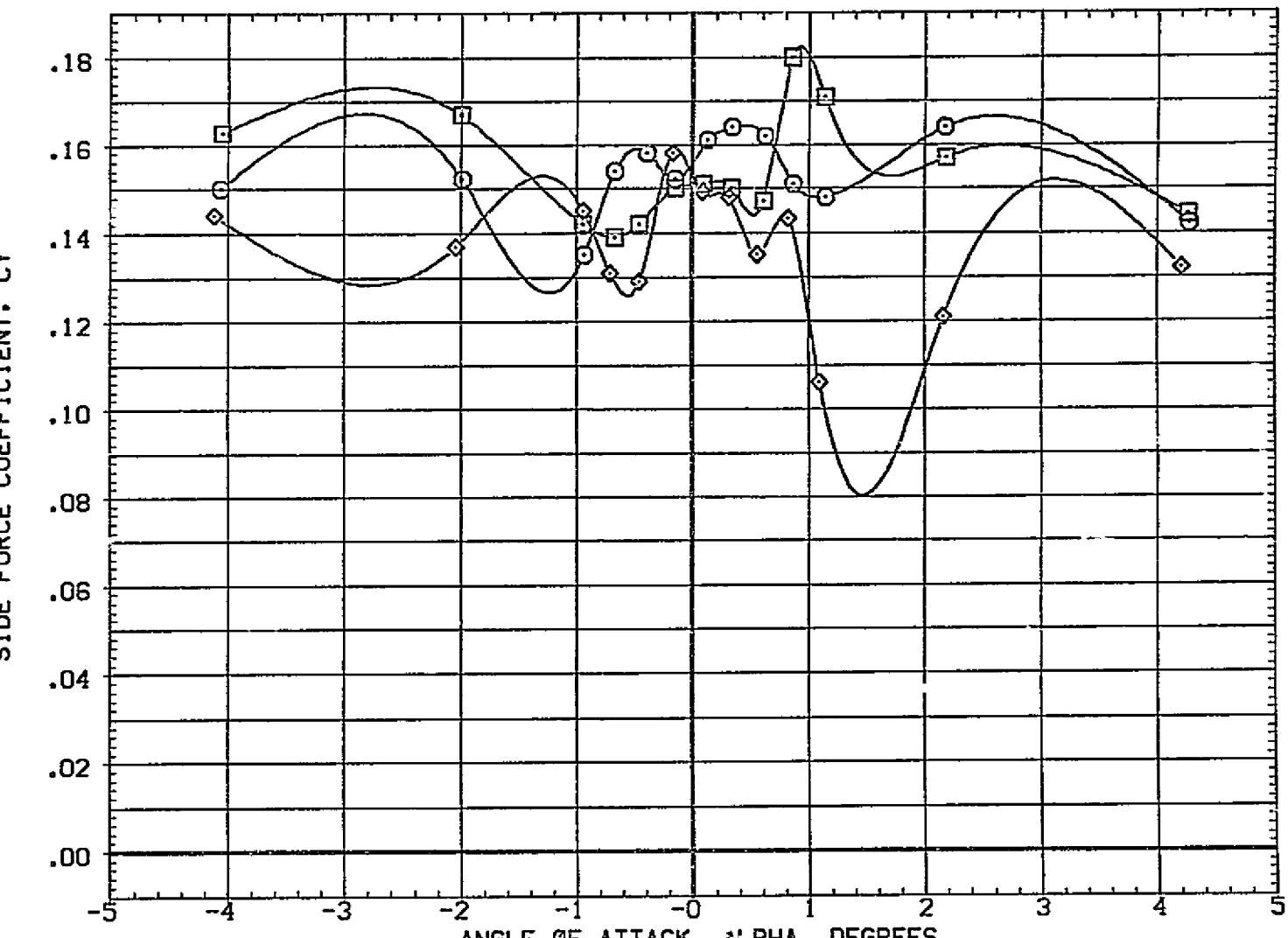


PITCH MODULATION EFFECT  
 (C)MACH = 1.00

PAGE 241

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1027) O DCAT ARC 603/604 B2 FS C  
 (BX1028) □ DCAT ARC 603/604 B2 FS C  
 (BX1029) ◇ DCAT ARC 603/604 B2 FS C

BETA	P-MOD	Y-MOD	P0J/PF	REFERENCE	INFORMATION
.000	.000	100.000	66.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	66.000	LREF	.3750 FT.
.000	100.000	100.000	66.000	BREF	.3750 FT.
				XMRP	.0000 FT.
				YMRP	.0000 FT.
				ZMRP	.0000 FT.
				SCALE	125.0000 PERCENT



>502

PITCH MODULATION EFFECT

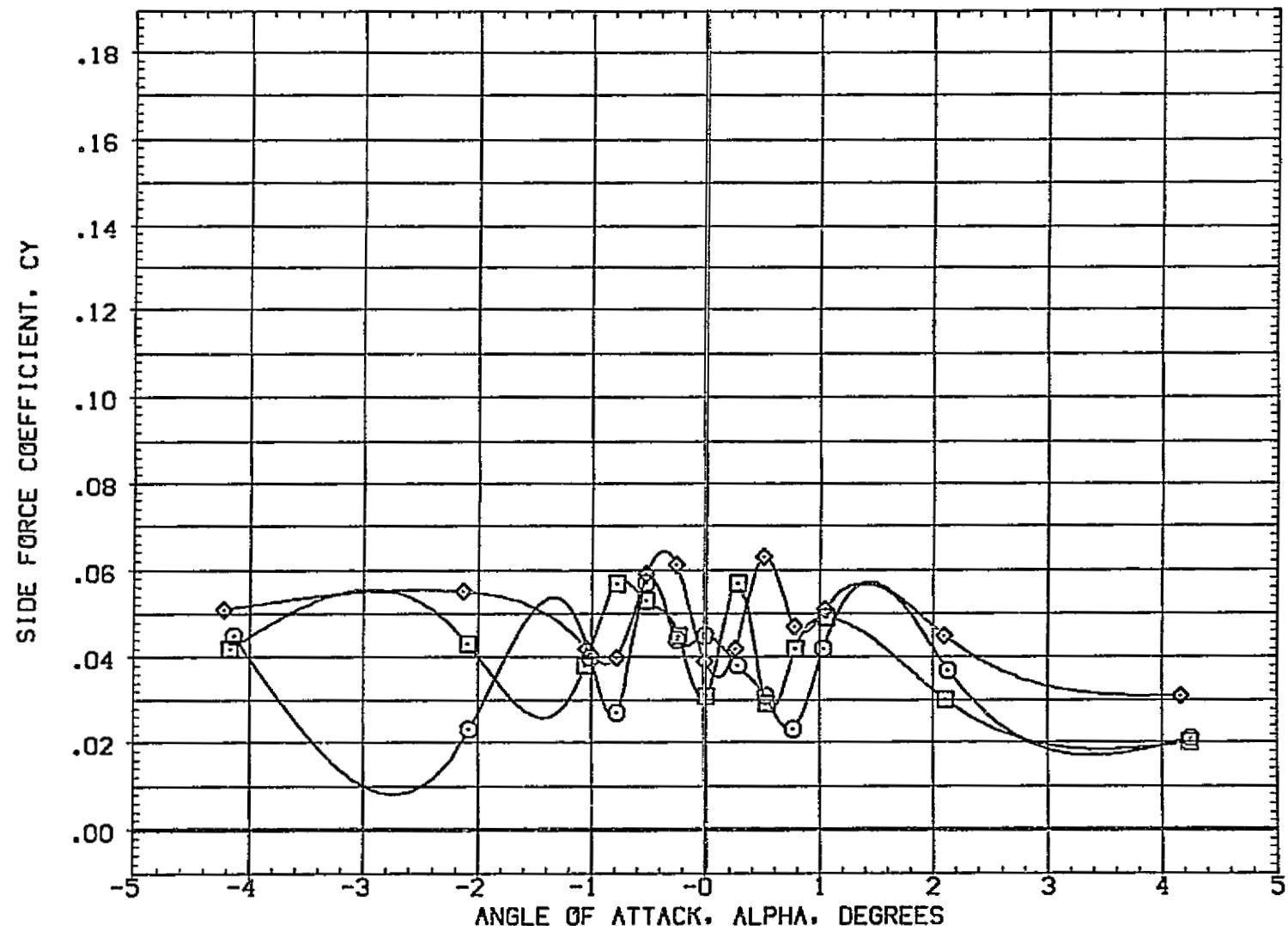
(A)MACH = 0.64

PAGE 242

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BX1027)  $\square$  DCAT ARC 603/604 B2 FS C  
 (BX1028)  $\square$  DCAT ARC 603/604 B2 FS C  
 (BX1029)  $\diamond$  DCAT ARC 603/604 B2 FS C

BETA	P-MOD	Y-MOD	POW/PF	REFERENCE	INFORMATION
.000	.000	100.000	85.000	SREF	.1100 SQ.FT.
.000	40.000	100.000	86.000	LREF	.3750 FT.
.000	100.000	100.000	85.000	BREF	.3750 FT.
				XRP	.0000 FT.
				YRP	.0000 FT.
				ZRP	.0000 FT.
				SCALE	125.0000 PERCENT

>30%



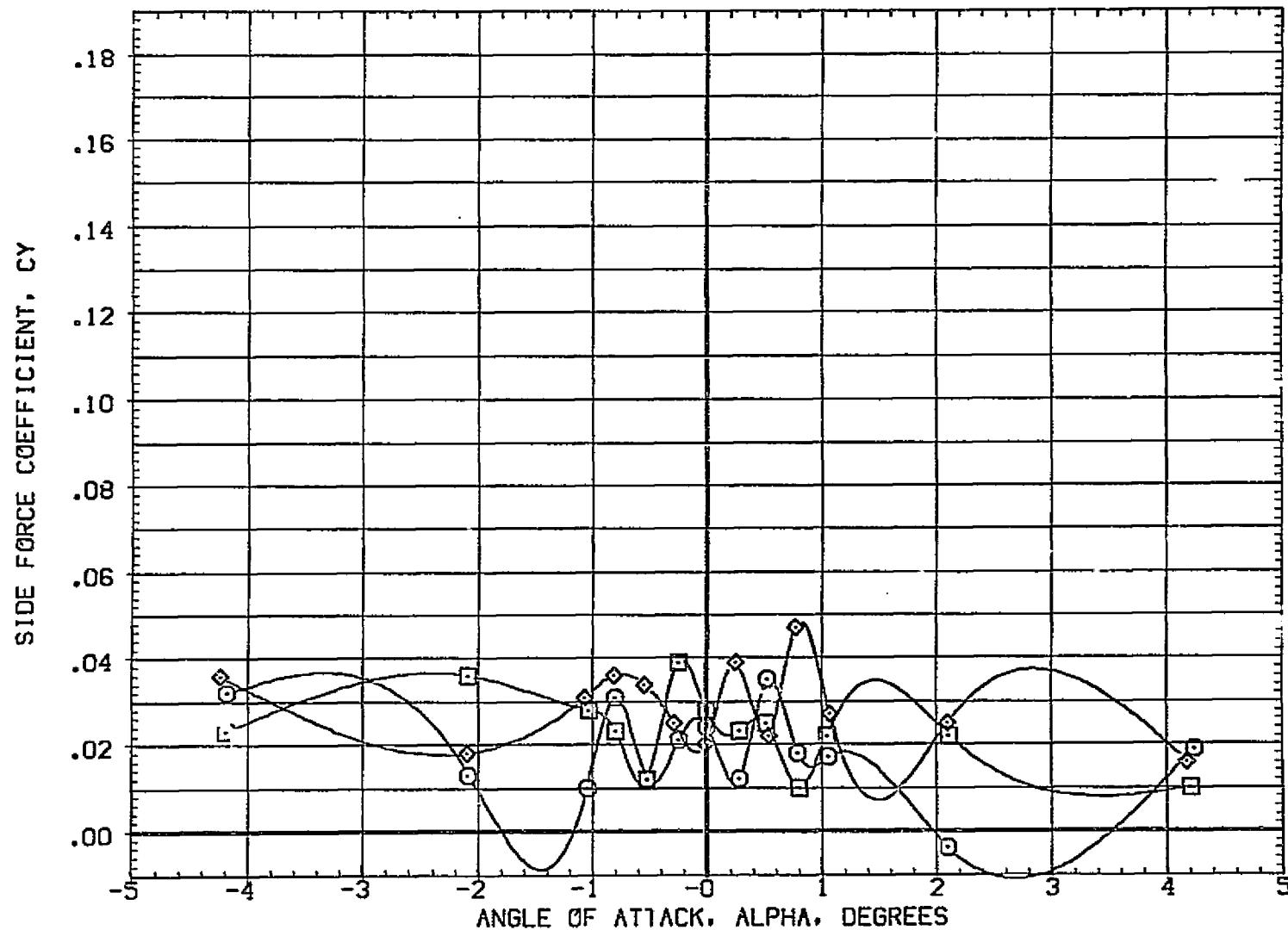
### PITCH MODULATION EFFECT

(B)MACH = 0.95

PAGE 243

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
(BX1027) O DCAT ARC 603/60 B2 FS C  
(BX1028) X DCAT ARC 603/604 B2 FS C  
(BX1029) D DCAT ARC 603/604 B2 FS C

BETA P-MOD Y-MOD POJ/PF REFERENCE INFORMATION  
.000 .000 100.000 86.000 SREF .1100 SQ.FT.  
.000 40.000 100.000 86.000 LREF .3750 FT.  
.000 100.000 100.000 86.000 GREF .3750 FT.  
XMRP .0000 FT.  
YMRP .0000 FT.  
ZMRP .0000 FT.  
SCALE 125.0000 PERCNT



PITCH MODULATION EFFECT

(COMACH = 1.00)

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